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U. S. Department of Agriculture.

VAUGHAN'S
ANNUAL PHLOX
( SEE PAGE 1 )

# Vaughan's
## Gardening Illustrated
## 1932

CHICAGO—10-12 W. RANDOLPH ST.
NEW YORK—47-49 BARCLAY ST.

DENTATA SUPERBA. Each $3.00
(Tender)

MRS. E. WHITAKER. Each $3.00
(Tender)

MARLIACEA ROSEA. Each $2.00
(Hardy)

GLADSTONIANA. Each $1.50
(Hardy)

BLUE BEAUTY (Pennsylvania)
Each $2.50 (Tender)

GEN. PERSHING. Each $4.00
(Tender)

COMANCHE. Each $3.50
(Hardy)

HELEN FLOWER. Each $1.50
(Hardy)

BISSETTI. Each $2.00
(Tender)

ZANZIBARIENSIS. Each $2.50
(Tender)

# *Water Lilies*

**TROPICAL WATER LILY COVER COLLECTION No 2.**
Your choice of Blue Beauty and Dentata Superba value $5.50 or Zanzibariensis and Bissetti and four marginal aquatics, value $5.50. Sent express Collect for **$4.00.**

**HARDY WATER LILY COVER COLLECTION No. 2A**
One each of the three beautiful hardy day-blooming lilies, Gladstoniana Marliacea Chromatella and Marliacea Rosea, three blue Water Hyacinths, six marginal aquatics such as Acorus, Arrowhead, Pickerel, etc., and three oxygenating plants. Value $8.00. Sent postpaid 300 miles from Chicago, Illinois, for **$5.00.**

**HARDY WATER LILY COVER COLLECTION No. 2B**
One water lily Attraction, one water lily Comanche, four marginal aquatics, six Water Hyacinths, six Oxygenating plants. Value $11.00. Sent Express Collect for **$7.50.**

**TROPICAL WATER LILY COVER COLLECTION No. 2C**
One each of three rare tropical lilies, General Pershing, Mrs. Edward Whitaker and Dentata Superba. Value $10.00. Sent Express Collect for **$7.50.**

**HARDY WATER LILY COVER COLLECTION No. 2D**
One each of the following hardy water lilies: Comanche, Gladstoniana, Helen Fowler, Chromatella and Attraction, three marginal aquatics, three Water Hyacinths, three Oxygenating plants. Value $14.75. Sent Express Collect for **$10.00.**

## Hardy Water Lilies

**ATTRACTION.** One of the largest hardy lilies in cultivation. Each, $4.50.

**COMANCHE.** Large flowers. Foliage olive green flaked with brown. One of the best lilies of recent introductions. Prolific bloomer, blossoms standing well above the water surface. Each, $3.50.

**HELEN FOWLER.** Very fragrant flowers borne on long stout stems above the water. Valuable for cutting. Very desirable for tubs or small pools. Each, $1.50.

**GLADSTONIANA.** Is a fine lily of beautiful form and strong, robust growth. Cup-shaped flowers, petals concave and broad, blooms freely. Each, $1.50.

**MARLIACEA CHROMATELLA.** Charming yellow flowers. The leaves are beautifully mottled with bronze red. Is the best yellow hardy water lily in cultivation for all purposes. Each, $2.00.

**MARLIACEA ROSEA.** One of the best pink hardy lilies. The large flowers are deep pink, plants free flowering and of vigorous growth with leaves changing from red to green as the leaves mature. Each, $2.00.

## Day Blooming Tender Nymphaeas

**BLUE BEAUTY (Pennsylvania).** Flowers twelve inches across. Flowers continuously from early season until frost. The leaves are green marked with brown. Each, $2.50.

MARLIACEA CHROMATELLA.
Each $2.00 (Hardy)

ATTRACTION. Each $4.50
(Hardy)

**GENERAL PERSHING.** Fragrant flowers borne on stems 12 inches above the water blossoms remaining open from 5 A.M. to 7 P.M. daily. Sepals pink inside and dark green out. Unexcelled for beauty and freedom of bloom. Each, $4.00.

**MRS. EDWARD WHITAKER.** Very large. Flowers often measure twelve inches in diameter, produced in quantity, lasting for several days. Petals slightly rounded at tips and are quite numerous. Round, green leaves mottled and streaked with dark red. Flowers open about 6:30 A.M. closing about 7:30 P.M. Very adaptable, thriving and blooming whether the roots are confined to three inch pots or large boxes. Unexcelled for a light-blue. Each, $3.00.

**ZANZIBARIENSIS.** The true royal purple water lily of Africa, measuring five to ten inches in diameter. Many stamens. Fragrant, extremely free in flower and growth. Each, $2.50.

## Night Blooming Tender Nymphaeas

**BISSETTI.** Exquisite rose turning to red as the flower matures, flowers of beautiful form, measuring eight to ten inches across; stamens deep orange. Leaves bronzy green. Plant is free flowering and vigorous in growth. Each, $2.00.

**DENTATA SUPERBA.** A very desirable variety with beautiful flowers, eight to twelve inches across. Leaves glossy green. Free flowering. Each, $3.00.

Gruss an Teplitz Each $1.00

Mrs. Lovell Swisher Each, $1.25

K. A. Victoria Each, $1.25

General Mac Arthur Each, $1.00

Mme. Butterfly Each, $1.25

Talisman Each, $2 00

Radiance Each, $1.00

Dame Edith Helen Each, $1.25

Mrs. E. Pembroke Thom Ea. $1.25

Mrs. A. R. Barraclough Ea. $1.50

## *A Rainbow Garden of Roses for - - -* $12.50

The twelve hybrid roses illustrated on this page include the best new and standard varieties of hybrid tea, or everblooming roses for the home garden. The prices below are for plants growing in pots, in full leaf. Plant them in your garden a few inches deeper than they grow in the pot, and they should bloom within a month and continue until freezing weather arrives.

### Cover Collection No. 3—12 Roses for $12.50

One each of the 12 varieties illustrated on this page (value $15.25) for **$12.50.**

### Cover Collection No. 3A—7 Roses for $7.00

One each of the following seven varieties illustrated on this page: Gruss an Teplitz, Mme. Butterfly, Mrs. Erskine Pembroke Thom, Mrs. A. R. Barraclough, General Mac Arthur, Dame Edith Helen and Souv. de Claudius Pernet. 7 plants (value $8.00) for **$7.00.**

### Cover Collection No. 3B—4 Roses for $4.00

One each of the following four varieties illustrated on this page: Gruss an Teplitz, Souvenir de Claudius Pernet, Mme. Butterfly and Dame Edith Helen. 4 plants (value $4.75) for **$4.00.**

**All prices are f. o. b. our greenhouses, Western Springs, Ill. Shipments by express at buyer's expense. Single plants can be sent by parcel post; shipping wt., 5 lbs. ea.**

**Plants are ready May 1, and to be shipped to states north of the Ohio river May 15 to May 30.**

**For a complete description of the varieties illustrated on this page and for Climbing and other roses, refer to "Roses" in Index of this catalogue.**

Souv. de Claudius Pernet Ea. $1.25

Hadley Each, $1.25

## *New Roses Recently Introduced*

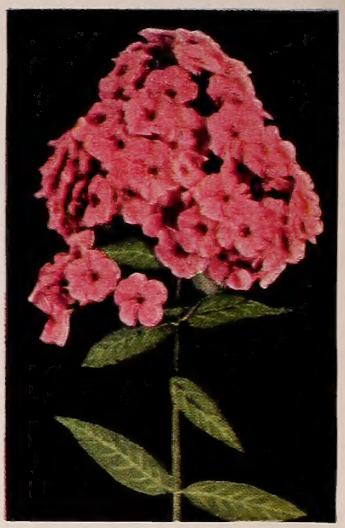
| | Each |
|---|---|
| **EDITH NELLIE PERKINS, (1928)** Delicate cream and blush petals with salmon pink center deepening at base to orange | $1.50 |
| **E. G. HILL. (1929)** Dazzling scarlet shaded to deeper red. Large blooms of fine shape in great profusion | 1.50 |
| **GOLDEN DAWN, (1929)** A light lemon rose of Australian origin. Full double fragrant flowers. Strong grower | 1.50 |
| **JOANNA HILL, (1929)** Attractive sulphur yellow deepening to orange at center, buds shaded dark orange | 1.50 |
| **IMPRESS, (1930)** A glorious combination of colors. Reddish orange buds, very double salmon-cerise blooms | $2.00 |
| **PRESIDENT HOOVER, (1930)** Deep copper red buds of fine form opening to lovely blending of copper, orange, vivid rose pink and scarlet | 2.25 |
| **TALISMAN, (1929)** A remarkable blending of gold, apricot, yellow, deep pink and old rose. Almost imposssible to describe | 2.00 |

**Cover Collection No. 3C. 7 Roses for $10.00, one of each of the seven new Roses described above** (value $12.25) **for $10.00.**

Von Hochberg 3 for $1.50

Bridesmaid 3 for 85c

Obergartner Wittig 3 for $1.50



Thor 3 for $1.00

Carrie 3 for 85c

# *Perennial Phlox Collection*

Four varieties of brilliant color, perfectly hardy and of lusty growth. Von Hochberg is an outstanding blood red. Bridesmaid, a paper white with red center. Obergartner Wittig has large heads of lilac rose blooms, and Thor is a tall deep salmon pink with enormous flower heads.

**Perennial Phlox Collection No. P10—4 Plants Postpaid, $1.35**

Contains one each of the four phloxes illustrated above.

**For Descriptions and Prices of Other Phlox see Index.**

# *Early Flowering Garden Chrysanthemums*

The Large Flowering Hardy Chrysanthemums illustrated, commence blooming in September and continue until severe freezing weather. They make a wonderful display when all other flowers are gone. Rodell is a button pompon type but the others have blooms measuring 2½ inch diameter. We advise planting between April 1st and May 15 and protecting with leaves or straw in late fall. To make bushy plants with many blooms, tops should be pinched off when they are 12 inches high.

**Early Flowering, Chrysanthemum Collection No. C1—8 Plants Postpaid, $1.65**

Contains one each of the eight Chrysanthemums illustrated.

**For Complete Descriptions and Other Varieties Please Refer to Index.**

Rodell 3 for 85c

A. Barham 3 for 85c

Murillo 3 for 85c

Eden 3 for 85c

Yellow Normandy 3 for 85c

Cranfordia White 3 for 85c

Firefly 3 for 85c

# Greatest Gladiolus Value We Have Ever Offered!

## Ten Each of Ten Prize Winning Varieties

**Selected by Edward Goldenstein, Manager of Our Bulb Department**

**Each Variety Separately Bagged and Labeled**

**$2** Prepaid 600 Miles

VAUGHAN'S Rainbow Garden of Gladioli is famous throughout the United States as an unexampled value. It is not a mixture, but has always been a collection of named varieties, an equal number of each. These varieties have been selected to give a good range of color in the planting and anyone who has grown the collection will testify to its merit.

But this year Edward Goldenstein, manager of our bulb department, announced his intention of surpassing all previous values in the Rainbow Garden Offer.

**Each Variety Separately Bagged and Labeled**

"I am not content to offer merely named varieties; I propose to give their names," he said. "Furthermore, to enable the buyer to plant his bulbs in a definite color scheme, if he wishes, I shall bag and label each variety. To make this possible, I cannot sell less than 100 bulbs, 10 each of 10 varieties. But I am going to select from all the varieties grown the world over, the ten best which it is possible to offer at the price of 100 bulbs for $2. It will be a value such as no one ever saw before in the gladiolus field."

This plan was approved, and Mr. Goldenstein has made good his word. He gathered for this offer bulbs of ten varieties which everyone who knows gladioli will recognize instantly as among the artistocrats of their race. Never before has it been possible to obtain varieties of this quality at so low a price. If you know these varieties, you will recognize this at once. If you do not know them, then order this collection and prepare for a delightful surprise.

**This List is Good Only to April 1, 1932**

Here are the ten named varieties of which you get 10 each through this offer for $2, but remember: This list will be supplied only until April 1. After that date we may change it, announcing the changes in our advertisements. But by ordering before April 1 you are assured of getting these ten splendid varieties:

***W. H. PHIPPS.** Most popular of all gladioli. A blue ribbon winner, usually opening ten perfectly placed flowers together, making a plume of fascinating color. La France-pink, lighter toward the center. Lower petals very faintly striped and flaked. Flowers enormous.

**ANNA EBERIUS.** Dark velvety reddish purple, throat deeper. A beautiful flower which has few rivals in its color.

***CAPTAIN BOYNTON.** One of the best lavenders with dark spot on lower petals. Paler than Minuet, and a frequent prize winner.

***DR. F. E. BENNETT.** One of the most consistent ribbon winners among the scarlets. Scarlet throat stippled with ruby and white. Tall straight, many flowers open at once, vigorous grower.

**WINDSOR.** Sister to Detroit. A giant flower of light pink with deeper pencilings of light crimson on inside and outside of upper petals.

***GOLDEN MEASURE.** Very large, dark golden yellow, always a prize winner in its color.

***MRS. LEON DOUGLAS.** Huge, bright salmon pink flowers inclined to flake. Often 5 feet tall and probably the largest of all gladioli.

**MRS. VON KONYNENBURG.** Violet, a near approach to blue. A robust grower, tall and strong, with six to seven flowers open at a time. Most vigorous of its color.

***IONIA.** This is a tall grower and carries a long spike of well placed beautiful flowers of an exceptional shade. The general color is a yellow, suffused with pink, which gives it an exceptionally delicate shade.

***VAUGHAN'S WHITE.** This splendid white is the best we have seen. The bulblets germinate well. It is a thrifty and vigorous grower with a medium stalk and many well-placed flowers open at once. Flower is a good, clear white with no throat markings.

**Vigorous Young Bulbs of Flowering Size**

The bulbs which we send you, as always in the Rainbow Garden of Gladioli, are not of the largest size, but are of flowering size—the size in fact which we use on our own farms with which to grow exhibition flowers. They are young, vigorous bulbs, which will produce a maximum of bulblets, and thus provide you with an ever increasing stock of these splendid flowers. Plant them a week earlier than you would plant first size bulbs, for they take that much longer to mature. But if you love gladioli do not neglect to send us an order for this 1932 collection, the greatest gladiolus value we have ever offered. *Illustrated in color on back covers.

# Mr. Cropp's Selections for the 1932 Flower Border

**SPECIAL OFFER:**

Any 3-25c, pkts., selected from this page - - - - - 65c

Any 3-50c, pkts., selected from this page - - - - $1.35

CARL CROPP, vice president of Vaughan's Seed Store, and manager of our flower seed department since it was organized, has a comprehensive acquaintance with flowers the world over. It is not every man whose business life is so happily arranged as to allow him to deal with materials which at the same time provide his greatest pleasure. But Mr. Cropp, as his friends will testify, not only knows flowers, but loves them. His judgment, therefore, is at once that of an expert and enthusiast.

He has often remarked on the number of flowers, not necessarily new, but of great beauty and well fitted for garden effects, which were relatively unused by gardeners. We asked him to make for this page a selection of varieties including some of these older, and less known kinds, and some of the newer introductions, which he would especially recommend for the flower borders of 1932. Here are his selections, all flowers that can be grown from seed, and all listed on the regular pages of this catalog.

## Mr. Cropp's Recommendations for 1932:

### Dwarf Feathered Cockscomb

1476 FIRE FEATHER (Celosia Liliput). The plant attains the height of 12 in., consisting of 15 to 20 branches of even length all terminated by brilliant feathery cockscombs. Fine for bedding and for pots. Pkt., 25c.

1478 ORANGE FEATHER. Pkt., 25c.

### Dianthus Plumarius

7584 HIGHLAND QUEEN. The most brilliant perennial Dianthus in cultivation, bearing in profusion flowers of a lustrous scarlet vermilion color. It is extremely hardy, of vigorous growth and ideal for bedding, borders and the rock garden, continuing in bloom from the end of May until November. Pkt., 25c.

### Hollyhock

7991 DOUBLE TRIUMPH. Grows 4-5 ft. high and is of branching habit, all the stems being studded by prettily waved and fringed flowers which appear in an entirely new range of colors and combinations of colors. Pkt., 25c.

### Lilies from Seed

8160 GLORIOSUM. Blooms readily the second year from sowing and these new hybrids give an extended blooming season for over five weeks. This long season of bloom, strength of stem, together with the unusual color combination, make this a most delightful variety. The colors range from pure white with yellow center through rich ivory and cream tints to deep sulphur. In some cases the exterior color of the flowers and unopened buds is a rich and attractive rose pink. Pkt. (40 seeds), 65c.

8117A CORAL LILY (Tenuifolium). It is a gem, perfectly hardy. One of the earliest to flower. 24 inches high, with the flowers up and down on the stem. Blooms are deep scarlet in color and have recurled petals of waxy texture. Pkt. (120 seeds), 25c.

8117B PHILIPPINENSE FORMOSANUM. This is an outstanding variety. It bears, on slender, leafy stem, one long, white, trumpet shaped flower, slightly marked externally reddish brown with reflexing petals. Blooms from seed the first year if sown early. Pkt., 50c.

### Marigold

3123 GUINEA GOLD. This is a very distinct type of Marigold, of graceful pyramidal habit, growing 2 to 2½ feet high and producing 30 to 40 flowers 2 to 2½ inches across, of a brilliant shade of orange flushed with gold. Unlike the ordinary African Marigold, this new type produces no single flowers, but practically 100% semidouble. The characteristic Marigold odor, too, is much less pungent than in other sorts. In order to obtain the best results, we recommend early sowing. An outstanding novelty. Pkt., 25c.

### Giant Pansies

3890 VAUGHAN'S IMPROVED SWISS GIANT. Several years ago we discovered and introduced this variety which created a sensation at once. The flowers are gigantic size, perfectly round, fine substance of flower and good form of plant and exhibit shades previously unknown in this family. They bloom early in the spring, continuing in flower all summer until late in fall. Pkt., 50c; 1/16 oz., 90c; ⅛ oz., $1.65; ¼ oz., $3.00; 1 oz., $10.00.

3792 MAPLE LEAF GIANTS MIXED. A distinct variety which we have only been able to offer privately heretofore. It has large leaves and flowers of giant size and substance with a wonderful color range. Has been grown by a few of our North Shore gardeners who have secured prizes when exhibited at shows. It is a prize winner whenever shown. Seed limited. Pkt., (200 seeds), $1.00; 1,000 seeds, $4.00.

### New Petunias

4063 GIANTS OF CALIFORNIA CAMILLA. A beautiful, rather ruffled Petunia of a lovely rose-pink color; rich crimson veining forms a wide halo toward the center and runs together to form a deep purple-crimson throat. The flowers are five to six inches across and so freely produced that the plants are a mass of delicious color. The flowers are of such substance that cut branches last 5 to 8 days in water. Pkt. 50c.

4066 DWARF CALIFORNIA GIANTS MIXED. The habit of the plant is very dwarf, flowers very large and of the finest substance. All with open veined throats of the superbissima type. Very fine range of color. Pkt., 50c.

3999 HYBRIDA COMPACTA COCKATOO. The plants attain a height of 8-in., are round and compact, covered with small round blossoms and are splendid for beds and borders. The flowers are a velvety deep violet-purple with irregular sized white spots and stars which give to the plant and bed an extraordinarily gay and vivid appearance. Pkt., 25c.

### Giant Zinnias

6145 DAHLIA FLOWERED MIXED. Three to four feet. In formation the petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias. A very charming and delightful surprise will be the result if you plant this liberally in your garden. Oz., $1.50; ¼ oz., 50c; pkt., 15c.

6156 CALIFORNIA GIANTS MIXED. Three to four feet. They are larger than Colossal and a cross between them and the Dahlia Flowered types. They have smaller, flater centers with more loosely placed petals. The petals are decidedly imbricated and the flower from bud to full bloom presents a graceful appearance. Oz., $1.50; ¼ oz., 50c; pkt., 15c.

# ORDER for SEEDS, BULBS and SUPPLIES TO

(Use Special Order Sheet attached for PLANTS, TREES, SHRUBS, Etc.)

# VAUGHAN'S SEED STORE

S 32

47-49 Barclay Street, NEW YORK — 601 West Jackson Blvd., CHICAGO

NAME _____ Date _____ 19____
Write very plainly

Post Office _____ State _____

Street, P. O. Box or Rural Delivery _____

D

Express or Freight Office {If different from P. O.} _____ Forward Goods by _____
(Parcel Post, Express, Freight or Boat)

(SEND NO CASH OR CURRENCY UNLESS REGISTERED)

Make Money Orders or Checks Payable to Vaughan's Seed Store

AMOUNT ENCLOSED

Money Order $_____

Draft or Check $_____

Postage Stamps $_____

Cash - - - $_____

See Page 112 for our SPECIAL PREPAID OFFER, also Table of PARCEL POST RATES to different zones.

Your local postmaster will tell you in which Zone you reside as regards NEW YORK or CHICAGO.

More order blanks will be sent upon request. Always write letters on a separate sheet from your order.

We do not warrant in any way, expressed or implied, the contents or the description, purity, productiveness or any other matter of any seeds, bulbs or plants, sold by us, and we will not be in any way responsible for the crop. If the purchaser does not accept these goods on above terms, no sale is made thereof, and he must return them at once, and money will be refunded. Subject to the above conditions we make this sale at the moderate prices we charge. VAUGHAN'S SEED STORE (Incorporated).

N. B. Examine seeds closely, test if desired, write us if anything is wrong and we will adjust.

| QUANTITY<br>Do not Abbreviate | NAME OR CATALOG NUMBER OF ARTICLE<br>Where Catalog gives a Number, Please order by it | WEIGHT<br>For Parcel Post Only | PRICE<br>Dols | Cts. |
|---|---|---|---|---|
| | A PREMIUM FOR EARLY ORDERS—For every cash mail order for vegetable seeds, flower seeds, lawn seeds and bulbs, amounting to $2.00 or more, received on this blank before March 1, 1932, we will send as a premium to reward foresight, gladiolus bulbs, our selection of the better named varieties, to the value of 10 per cent of the order. Premium bulbs will be mailed after March 1. No premium on orders received after March 1, 1932. | | | |
| | **Substitutes** You may substitute the next best of any variety you cannot supply ☐<br>Please do not substitute without first notifying me..... ☐<br>(Please mark a cross (X) in one of the above spaces.) | | | |
| | (Order Flower Seeds by numbers only) Carried Forward, | lbs. | $ | |

If by mail, and PREPAID OFFER on page 112 does not apply, add postage for your Zone. (Over)

| QUANTITY | NAME OR CATALOG NUMBER OF ARTICLE<br>Where Catalog gives a Number, please order by it. | WEIGHT<br>For Parcel Post Only | PRICE<br>Dols. | <br>Cts. |
|---|---|---|---|---|
| | Brought Forward | | | |

| DOMESTIC PARCEL POST RATES<br>On Seeds, Plants, Bulbs, Roots; Books, Tools, Etc., within the U. S. and Possessions. | | First Pound or Fraction | Each Additional Pound or Fraction |
|---|---|---|---|
| First Zone | Chicago or New York or 50 miles thereof | 7c | 1c |
| Second Zone | within 50 to 150 miles of either | 7c | 1c |
| Third Zone | within 150 to 300 miles | 8c | 2c |
| Fourth Zone | within 300 to 600 miles | 8c | 4c |
| Fifth Zone | within 600 to 1000 miles | 9c | 6c |
| Sixth Zone | within 1000 to 1400 miles | 10c | 8c |
| Seventh Zone | within 1400 to 1800 miles | 12c | 10c |
| Eighth Zone | all over 1800 miles | 13c | 12c |

Total Weight,

Amount for Postage

Grand Total, $

**Filled by.............................. Checked by.............................. Packed by..............................**

**Shipped by.............................. Style of Package..............................**

**Date.............................. Book.............................. Weight..............................**

# Novelties and Specialties of 1932

FLOWERS are one of the supreme gifts to man. The harmony of color, the wonderful diversified forms of flower and foliage, with the delightful fragrance of many varieties all contribute to their charm.

While it is possible to enjoy the wild flowers of the road side and the cultivated ones in the florist shop, the pleasure is more intense if we "grow our own." Especially is this true when we experiment with the newer sorts. Having some flower entirely new to surprise our neighbors and exhibit at shows, gives a thrill that only those who experience can enjoy. We have carefully revised and added to our list of novelties and specialties and we confidently recommend them to you. Be sure and try as many as possible.

## ACROCLINIUM ROSEUM □

166 **Double Giant Mixture.** These pretty graceful flowers are too little known in American gardens; they are attractive in bouquets and may also be dried like Helichrysum for winter decoration. This large-flowering type is twice the size of the old one, with long stiff stems; flowers are double and semi-double; white, chamois, flesh color and bright rose; about ¾ of the seed will bring the large-flowering type; the smaller older type is also attractive. Pkt., 25c.

## AGERATUM □

196 **Mexicanum Nanum Compactum. Blue Ball.** New deep, dark blue. The plant is dwarf and symmetrical in shape and when in full bloom the foliage is literally covered with small flowers giving the appearance of a closely formed blue ball. Pkt., 15c.

198 **Mexicanum Nanum Compactum. Blue Cap.** The flowers are much larger than those of Little Blue Star and of a deeper and richer color. It also surpasses Blue Ball in dwarfness and compactness of habit and the regular form of its inflorescence. The foliage is small and the plants have the appearance of miniature domes, so that it is quite the beau ideal for edgings to flower borders. Pkt. 15c.

## ANCHUSA □

311 **Angustifolia Capensis Blue Bird.** The plants are of compact and even habit. The flowers are a vivid indigo blue, a complete contrast to other varieties in this family. Pkt., 15c.

## ANTIRRHINUM □

The following are the new varieties, especially fine for forcing under glass:

362 **Afterglow.** A beautiful bronze. Pkt., $1.00.

375 **Cheviot Maid.** The earliest pink winter-blooming "snap". Pkt., 50c.

374 **Ceylon Court Yellow.** Robust growth: foliage strong, healthy and vigorous. Beautiful canary-yellow. Spikes 10 to 14 inches; flowers closely set; one of the earliest and most productive producers, strong, wiry stems. Pkt., 50c.

387 **Geneva Pink.** A delightful glistening rose-pink borne on long dense spikes and supported on long stiff stems, well furnished with rather dark green foliage. Pkt., 50c.

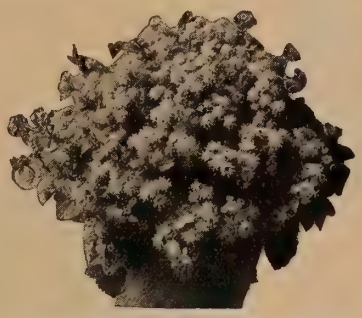
393A **Happiness.** New immense flowers, closely set and of a rose leaf texture. Pkt., $1.00.

394 **Helen.** Lovely salmon in color. Pkt., 50c.

395 **Jennie Schneider.** Beautiful pink, same shade as Columbia rose. Pkt., 50c.

402 **Penn-Orange.** Striking tangerine orange, dark green foliage. Pkt., 50c.

406 **Pink Perfection.** In habit, this new type may be likened to Perfection Stocks; the plant produces innumerable long, perfect spikes, which are perfectly balanced. The flowers are a beautiful shade of pink, described as hermosa pink, slightly suffused with salmon. Pkt., 50c.



AGERATUM MEXICANUM NANUM COMPACTUM BLUE CAP

ANTIRRHINUM MAJESTIC

ANTIRRHINUM—Continued

404A **Roman Gold.** A deep golden yellow with the lip a lighter yellow suffused with pink. The tips have a beautiful pink-copper hue. Pkt., 50c.

408A **Rose Queen (Witterstaetter).** New. A beautiful dark pink, large flowering, a true winter bloomer. Pkt., $1.00.

407A **Sunburst.** Same shade as rose of same name. Intense orange copper and golden yellow. Pkt., 50c.

408 **White Rock.** A good forcing white of medium height. Pkt., 50c.

426 **Vaughan's Mixture of Greenhouse Varieties.** A mixture of the forcing varieties we list. Pkt., 75c.

### New English Snapdragons "Majestic"

### Half Dwarf Sorts

A new type os Snaps with flowers of the Maximum sorts and in height of the Semi-tall sorts.

316 **Eldorado.** Deep golden yellow, the richest tint to date in this family. Pkt., 25c.

317 **Golden Dawn.** Golden buff overlaid salmon. Pkt., 25c.

318 **Orange King.** Coloring is an exquisite blend of shades, rich terra cotta above, the lip golden yellow merging to pure deep orange at the base. Pkt., 25c.

319 **Red Chief.** Color is a rich deep scarlet. Pkt., 25c.

323 **Rose Beauty.** The color is a charming rose pink self; and makes a most brilliant show both individually and when the plants are massed together in beds. Pkt., 25c.

320 **Rose Marie.** Light salmon rose with gold center, a most charming and delightful shade, probably the best of all. Pkt., 25c.

321 **Sunset.** Color delightful combination of bright terra cotta above, shading gradually downward into a rosy salmon. Pkt., 25c.

322 **Twilight.** Delicate apricot with yellow and salmon shading. Pkt., 25c.

### Majus Grandiflorum

343 **Goliath.** Massive spikes of immense individual flowers of beautiful coloring, salmon rose above, with orange center shading downwards to pale apricot. Pkt., 25c.

### Tom Thumb

436 **Sutton's Little Gem.** Very charming compact little plants, 4 to 6 inches high, covered with small flowers of various pretty colors; splendid for rock gardens or borders. Pkt., 25c.

### Front Cover Offer

1 pkt. each 9 varieties illustrated as noted below 60c.

(For other sorts and special mixture, see page 62.)

1 Isabellina
2 Leopoldi
3 Gold Star
4 Chamois Rose
5 Dark Blue
6 StellataSplendens
7 Fiery Scarlet
8 Carnea (Flesh)
9 White with dark eye

# Novelties and Specialties of 1932

ASTER SURPRISE SALMON GOLD

## ARCTOTIS □

449 **Breviscapa Aurantiaca.** The daisy-like flowers have petals of a most pleasing dark orange color which turns lighter toward the center, thus producing a wonderful contrast to the purplish disc. The under sides are of a brownish tint. The stems are just long enough to make attractive cutting material and the plant is suitable for flower beds and groups. Pkt., 25c.

## ASTER □

606 **Lemon Ball.** Most distinct yellow aster, a light canary yellow, quilled and so double that it has the appearance of a perfect hemisphere; very lasting when cut, and the plants remain in bloom for a long time; upright growing; 20 in. Pkt., 25c.

646 **Scarlet King.** The most beautiful and distinct of all red Asters, more brilliant even than Heart of France; blooms profusely and lasts long when cut. 20 in. Pkt., 50c.

934 **Swan's Down.** An enormous white peony flowered Aster. Flowers beautifully incurved about 4½ to 5½ inches in diameter with straight, rigid stems non-lateral branching. Pkt., 35c.

935 **Maiden's Blush.** A sister of the above only the flower is a lovely shade of soft appleblossom pink. Pkt., 35c.

941 **Surprise "Salmongold."** An entirely new color and new form. When starting to flower the blossom is a pure salmon-yellow color. The fully developed blossom shows a radiating salmon-pink shade. The single blossom is 2¾ to 3½ inches in diameter, of a noble, circular form. The blossoms resemble to a certain degree the Peony flowered type with the long stems of the American Beauty. Each plant carries on the average of 40 to 50 blooms and the cut flowers remain fresh in water from two to three weeks. Pkt., 35c.

### Wilt Resistant

**Wilt Resistant Strain** was offered last year for the first time when we cataloged the Heart of France Wilt Resistant Strain. Our tests proved the efficacy of this strain which, although the seed was grown in the sickest of soils, did not carry the disease. So, this year we have added the following Wilt Resistant varieties to our list.

Asters have been such a disappointment in the last few years, it will be a pleasure to be able to grow them again with a reasonable degree of success.

731 **Astermum White.** Large pure white flowers on long stems.

746 **Giant Branching Mary Semple.** Rich shell pink, fine cut-flower variety.

880 **Royal Purple.** Midseason, free flowering.

564 **Giant Comet Pink.** Midseason, light delicate pink.

601 **Heart of France.** Pure ruby red, a brilliant color.

711 **Crego Deep Rose.** Fluffy type flower, deep, bright rose color.

Each of the above, Pkt., 25c; any 3 Pkts., 65c.

ASTERS—Continued

**Liliput.** A small flowered intensely double Aster. The plants are of ideal habit and about 18 inches in height; the flowers are of neat and symmetrical form.

824 **White.** 825 **Rose.** 826 **Dark Blue.** 827 **Mixed.**

Each of above. Pkt. 25c. Any 3 pkts. for 65c.

## BALSAM □

1051 **Bush Flowering Mixed.** In shades of white, rose and red. Free-flowering double balsam of bushy growth, flowers appear in clusters on the top of stems instead of hidden on side of stems as in the other sorts. It is a fine bedding plant. Pkt., 25c.

## BEGONIA

1087 **Semperflorens Striegau.** A compact and dwarf grower. The whole plant being only about 10 inches in height. The individual blooms are very large, fully 2½ in. in diameter. The color is a rich and fiery carmine. Pkt., 50c.

1088 **Semperflorens Winter Romance.** The foliage is juicy light green, the color of the flowers is radiating carmine pink. It is a fine pot plant and will bloom all winter in the house or under glass. Pkt., 50c.

## CALCEOLARIA

1182 **Albert Kent's Hybrids.** A very lovely variety for greenhouse culture. The flowers are intermediate in size and produced in large graceful clusters. Pkt., $1.00.

## CALENDULA □

1191 **Ball Orange.** It has fine stems, immense double flower of a brilliant glisteny orange. Pkt., 25c.

1194 **Ball Gold** has the same long stem and extra large, uniformly double flowers that are so well known in our Ball Orange. Pkt., 25c.

1200 **Sensation.** Long stems, very double brilliant, orange flowers with a crimson or scarlet sheen. The blooms are flat in shape. Pkt., 25c.

## CALLIOPSIS

1224 **Tom Thumb Dazzler.** One of the brightest and most easily grown annuals It has large, rich maroon-red flowers with broad golden-yellow border. Very effective for borders. Pkt., 25c.

## CHRYSANTHEMUM

1615 **Cascade** or **Balcony Mixed.** A new form of this plant which instead of growing upright produces drooping spikes a foot or more in length, with flowers about the size of a Climax Aster in delicate shades of pink, rose, yellow and white mixed. Should be grown in hanging basket or in a pot set high to allow the plant to develop to full beauty. Pkt., 50c.

1660 **Coronaria Nanum Single Coronet.** Flowers cream, edged lemon. Flowers last very long when cut and are charming in combination with blue corn flowers. Pkt., 15c.

## COLEUS □

1863 **Large-Leaved Dwarf Mixture.** The Coleus are grown for brilliancy of their foliage rather than for beauty of flowers which are insignificant. This variety is dwarf in growth which makes it a good pot plant. The coloring is very attractive with many shades and tints of yellow, copper, red, white and green. Pkt., 35c.

CALENDULA SENSATION

# Novelties and Specialties of 1932

CALLIOPSIS DAZZLER

DIANTHUS WIVELSFIELD

LARKSPUR Giant Imperial

## CELOSIA □

1476 **Liliput Fire Feather.** The plant attains the height of 12 in., consisting of 15 to 20 branches of even length all terminated by brilliant feathery cockscombs. Fine for bedding and for pots. Pkt., 25c.

1477 **Liliput Orange Feather.** Same as above only color is a brilliant orange Pkt., 25c.

1 pkt. each of above 2 Celosias for 40c.

## DAHLIA □

2057 **Coltness Gem.** This has been selected from the Coltness Hybrids and comes quite true. The color is a bright scarlet and the single flowers are produced in abundance. Fine for bedding or growing singly in the smallest gardens. Pkt., 50c.

2081 **Selecta, Extra Double Giant-Flowered.** A most beautiful mixture of the very best new double Dahlias, with flowers on stiff, erect stems. Pkt. (50 seeds), 50c.

To those interested in prize winning varieties we recommend these mixtures from a California hybridizer:

2083 **Salbach Choice Mixed.** 4 ft. Pkt. (100 seeds), $1.00.

2084 **Salbach Selected Mixed.** 4 ft. Pkt. (100 seeds), $2.50.

## IMPORTED COLLECTIONS

2883 **Annuals** (18 sorts) in one collection for $1.00.

2884 **Everlasting Flowers** (12 varieties) in one collection for 60c.

2885 **Ornamental Gourds** (12 small flowering sorts) in one collection for 50c.

2886 **Ornamental Grasses** (12 varieties) in one collection for 50c.

## DIANTHUS □

2250 **Sweet Wivelsfield.** It is the result of a cross of the Dianthus Allwoodii on the Dianthus Barbatus. The growth is not unlike the Sweet William but the flowers are larger and it has a much wider range of color. Besides retaining the brilliant coloring of the Heddewigi strain, which was one of its ancestors, it has many of the dainty markings of the same. Some of the flowers have a honey perfume. Blooms the first year from seed. Pkt., 25c.

## FELICIA □

2449 **Bergeniana (Kingfisher Daisy).** Turf-like foliage, with daisy-like flowers, ¾ in. across, of an uncommon shade of blue. This annual is easily raised and comes quite true from seed. Pkt., 25c.

## FREESIA □

2456 **Hybrida Tuberengii.** Richest shades, very large flowering hybrids. When the seedlings are of sufficient size to be handled they are pricked off in pots or flats or placed 2½ inches apart—here they can remain until the blooming season. If sown in April, the plants will bloom in December to January. In order to lengthen the blooming period several sowings 2 to 3 weeks apart can be made. Pkt., 35c.

## GLORY OF THE SUN +

3008 **Leucocoryne Ixioides Odorata.** Heads of large fragrant flowers, blue with white centers, carried gracefully on a wiry 18 in. stem. Culture the same as for Freesias. It is a tender perennial, flowers the second year from bulbs produced the preceding year. It is a greenhouse proposition exclusively. Pkt. (50 seeds), 85c.

## HELIANTHUS □

2073 **Annuus Aureola.** This is an intermediate form of the annuus and cucumerifolius varieties. The flowers, owing to its peculiar rays of petals tinted wine red to delicate yellow with a brown-red center, have the effect of an aureole. Free bloomer. Pkt., 15c.

## HELIOPHILA □

2819 **Leptophylla.** An excellent annual both for growing in pots or borders. Grass-like foliage, bright blue flower deepening towards center with a clear white eye. Pkt., 25c.

## LARKSPUR □

2166 **Giant Imperial Blue Spire.** A valuable addition to the Stock-flowered Larkspurs. With flowers of an intense Oxford Blue the plant has the same upright base-branching habit as the Exquisite Pink Improved. Pkt., 20c.

2167 **Giant Imperial Lilac Spire.** This is the beautiful color so popular in Larkspurs, bred into the base-branching habit of the Giant Imperial group. Pkt., 20c.

2168 **Giant Imperial White Spire.** A beautiful pure white variety, in other respects similar to the foregoing. All are excellent for garden decoration. Pkt., 20c.

2126 **Giant Imperial Exquisite Pink Improved.** Upright growth and color a soft pink shaded salmon. Pkt., 20c.

2169 **Giant Imperial Exquisite Rose.** Beautiful shade of rose-pink, several tones deeper than Exquisite Pink Improved. Pkt., 20c.

2136 **Miss California.** A very rich, deep pink on a salmon ground. The habit of the plant is more distinctly upright or Delphinium type than any other variety of Larkspur introduced to date with foliage of a healthy green appearance. Pkt., 20c.

## MIGNONETTE □

3224 **The Ball.** Flowers are closely set on long spikes. It is lighter and a more attractive color and two to three weeks earlier than other varieties. Pkt., 25c.

## MYOSOTIS □

The **Bouquet** type is a compact upright grower of the pillar or column type, blooms so freely the plants are completely smothered with flowers. We can supply in the three following colors:

3350 **Blue Bouquet.** Royal blue color.

3351 **Indigo Blue Bouquet.** Dark blue flowers.

3352 **Pink Bouquet.** Charming pink shade.

Each of the above, Pkt., 25c; or 3 pkts. for 65c.

**NASTURTIUM Golden Gleam,** see page 58 for illustration and description.

CELOSIA LILIPUT

# Novelties and Specialties of 1932

MARIGOLD GUINEA GOLD

## MARIGOLD □

3123 **Guinea Gold.** This is a very distinct type of Marigold, of graceful pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange flushed with gold. Unlike the ordinary African Marigold, this new variety produces no single flowers, but practically 100 per cent, semi-double. The characteristic Marigold odor, too, is much less pungent than in other sorts. In order to obtain the best results we recommend early sowing. An outstanding novelty. Pkt., 25c.

3134 **Alldouble Orange African.** Exactly like tall African Orange Queen in size and color and comes about 90% double from seed. Pkt., 25c.

3133 **Alldouble Lemon.** Yellow, same as above only the color is light yellow, about 90% double. Pkt., 25c.

## PANSY □

3792 **Maple Leaf Giants Mixed.** A distinct variety which we cataloged last year for the first time. It has large leaves and flowers of giant size and substance with a wonderful color range. Has been grown by a few of our North Shore gardeners who have secured prizes when exhibited at shows. It is a prize-winner whenever shown. Seed limited. Pkt. (200 seeds), $1.00; 1,000 seeds, $4.00.

3894 **Vaughan's Five-Blotched Super-Swiss Giants.** The Swiss giants as originally introduced by us were mostly 3-blotched. Our grower by painstaking selection has succeeded in fixing a strain that comes 90% 5-blotched and in all the brilliant and unique colors and color combinations of the Swiss Giants, having their enormous size of wavy and crinkly flowers. We recommend this strain as distinct and very desirable. Pkt. (250 seeds), 75c.

3842 **Mammoth Exhibition.** We can highly recommend this mixture. It is a sturdy grower and has a short habit and large leaves; in consequence the plant remains in good condition all summer. The flowers are round, solid, of gigantic size, and the most bewitching color range and variation. Pkt. (200 seeds), 50c.

3825 **Mrs. Pierre S. du Pont.** Rich, pure golden apricot, blushed with salmon, an entirely new shade. Giant size, long stems, petals of fine substance and perfectly placed. Pkt. (150 seeds), 50c.

## PETUNIAS □

3999 **Hybrida Compacta Cockatoo.** The plants attain a height of 8 in., are round and compact, covered with small round blossoms and are splendid for beds and borders. The flowers are a velvety deep violet-purple with irregular sized white spots and stars which give to the plant and bed an extraordinarily gay and vivid appearance. Pkt., 25c.

4052 **Hybrida Grandiflora Silver Edge Purple Robe.** A superb deep velvety violet—without any trace of magenta, and enhanced by a fine silver line usually appearing at the edge of the flower. Pkt., 50c.

4064 **Giants of California Lavender Blue.** A most delightful and distinct color hitherto missing in this type. Pkt., 50c.

4062 **Theodosia.** Large-flowered fringed flowers of rosy pink with a clearly defined golden center with minute stripes. Pkt., 50c.

4069 **Ruffled Giants.** The charm of these is difficult to describe. There are so many bewitching shades of color in the gigantic ruffled flowers it is a continual joy to see the flowers unfold and develop. Pkt., 50c.

PETUNIA—Continued

4063 **Giants of California Camilla.** A beautiful, rather ruffled Petunia of a lovely rose-pink color; rich crimson veining forms a wide halo toward the center and runs together to form a deep purple-crimson throat. The flowers are 5 to 6 inches across and so freely produced that the plants are a mass of delicious color. Pkt. (200 seeds), 50c.

4066 **Dwarf California Giants Mixed.** The habit of the plant is very dwarf, flowers very large and of the finest substance. All with open veined throats of the superbissma type. Very fine range of color. Pkt. (200 Seeds), 50c.

4068 **Fimbriata Miranda.** Deep carmine, scarlet throat, boldly waved and frilled, the best brilliant red petunia. Pkt., 50c.

3948 **Double Dwarf Large-Flowering Fringed Mixed.** Flowers nicely frilled, very large and quite double in a fine range of colors on splendid compact plants. Pkt. (120 seeds), 50c.

3947 **Double Royal Purple.** Very fine new double variety. Pkt. (120 seeds), 50c.

3953 **Double Rosy Morn.** Medium-sized flower semi-double with heavy petals folding back from center of a lovely rose color. It resembles a gardenia in shape. Pkt. (120 seeds), 50c.

3945 **Double Shepherd's Pride.** True salmon pink of peony flowered type, flowers 4 inches in diameter and will produce 50% double flowers. This is a marvelous new color in Petunias and one of the prettiest yet produced. Very compact grower and a profuse bloomer. Pkt. (120 seeds), 50c.

MARIGOLD ALL DOUBLE

PANSY MAPLE LEAF

# Novelties and Specialties of 1932

PETUNIA DWARF GIANTS OF CALIFORNIA

SALVIA HARBINGER

## SALVIA □

4662 **Harbinger.** The plants are dwarf and compact in habit and the strong dark foliage is very effective against the vivid hue of the flowers; seeded in February will begin to flower in June and maintain a blaze of color until frost. Pkt., 35c; ⅛ oz., 75c.

## SCABIOSA □

4727 **Loveliness.** Scabiosa Loveliness is unsurpassed as a cut flower. It has long, stiff stems and a delightful fragrance, but its crowning beauty is its glorious salmon-rose color. Pkt., 25c.

4742 **Coral Rose.** A very neat and compact plant growing only 8 inches tall. Flowers a delightful shade of deep rose-pink tinged salmon. Comes quite true from seed and is splendid for bedding. Pkt., 25c.

## SWEET PEAS—Late Flowering Spencer

4989 **Ambition.** A new lavender, perfectly distinct, with a darker shade on the base of the standard and wings when young. Very long flower stems, each bearing four or five enormous flowers beautifully waved and perfectly placed. Pkt. (20 seeds), 25c.

5037 **Debutante.** A lovely soft creamy salmon. Pkt., 25c.

5045 **Floradale.** A new salmon-pink on a cream ground—an unusually rich and pleasing color. Where the sun is less intense the color is somewhat richer—more of a salmon-cerise. Long, strong stems each bearing four very large, frilled blooms, many of which are exquisitely duplexed. Pkt. (20 seeds), 25c.

5296 **Welcome.** Fiery orange-scarlet. Most intense and glowing color. Pkt., 25c.

## SWEET PEAS Early Flowering Spencer

5407 **Fascination.** A salmon rose-pink flower on exceedingly long stems. Pkt., 25c.

## URSINIA □

5657 **Anethoides.** This is the most attractive and useful of the many species of Ursinia native to South Africa, being easy to grow and the blossoms remaining open until dark. The plants form large tufts of leaves, from which spring up long wiry stems, bearing flowers of a rich orange-yellow, adorned by a beautiful ring of deep purple with spots of a darker shade. This very showy plant will do excellent service both for cutting and for garden decoration. Pkt., 25c.

## VENIDIUM □

5658 **Fastuosum.** A magnificent new species from South Africa. The plants attain a height of two to three feet, and above the greyish silky foliage rise numerous rich orange-colored daisy-like flowers, which are marked with a purple-black zone at the base of the petals. The flowers average four to five inches across, and make a most striking display in the border. This variety is best treated as a half-hardy annual, sowing the seed in March or April, as germination is difficult if started earlier. Plant in sunny position. Pkt., 35c.

## VERBENA □

5716 **Royal Bouquet Mixed.** 15 to 18 in. tall. A new departure in growth of Verbena Hybrida. Heretofore this family had a roving, creeping habit being used principally as a ground cover. This variety has an upright growth on straight stems making it a good cut-flower sort and a symmetrical bedding plant. The flowers are very large in many charming colors. Pkt., 25c.

5717 **Sutton's Giant Pink.** A fine salmon pink with a faint light eye. Comes almost true from seed—an improvement on Ellen Willmott which may only be supplied true from cuttings. Pkt., 25c.

5718 **Lavender Glory.** A true lavender with a medium-sized creamy white eye which accentuates the lovely Lavender tone. The color runs about 80% true, and the individual florets will cover a fifty cent piece. It is also distinctly and sweetly fragrant. Pkt., 25c.

5719 **Royale.** Royal blue with a creamy yellow eye. Pkt., 25c.

5744 **Erecta Compacta Mixed.** A dwarf compact plant of upright and not spreading growth in many attractive colors. Pkt., 25c.

5735 **Nana Compacta Fireball.** Grows about 6 inches high, literally covered with bright scarlet blooms; excellent for borders or pot plants. Comes true from seed. Pkt., 25c.

5736 **Nana Compacta Chamois.** A new shade in the dwarf sorts, pale chamois tinted buff. Pkt., 25c.

## VISCARIA

5801 **Oculata Coerulea Blue Bouquet.** A useful blue bedding plant of strikingly erect growth. The flowers are larger and a more beautiful shade of blue than the old type. Pkt., 25c.

## VIOLA CORNUTA □

The Violas are a large family. To them belong the Pansies or Viola Tricolor Maxima, as they are known botanically, and the Viola Odorata or Violet and the Viola Cornuta or Horned Violets which are nearly as large as Pansies and bloom freely and continuously all season if the wilted blooms are kept nipped off.

Viola Bosniaca and Florariense are perennials and will be found in the perennial novelties.

5805A **Apricot.** Beautiful rich apricot shade, tinged orange towards the center. Pkt., 25c.

5818 **Hansa.** This variety carries its lovely rich violet colored flowers on long stems in the greatest profusion and blooms continuously all season. Pkt., 25c.

5817 **Jersey Gem.** Forms a large, compact plant. The flowers are a very pleasing shade of deep violet-blue, with an occasional very slight variation in tint. This bloomed with us profusely during the hottest weather in July and August, fully exposed to the sun. Pkt., 25c.

5810A **Primrose Dame.** Sulphur yellow. Pkt., 15c.

5816. **Puck.** The two upper petals are a velvety deep purple-violet and the three lower clear yellow. Pkt., 15c.

5812A **Terra Cotta.** Terra cotta shades. Pkt., 15c.

8582 **G. Wermig.** Resembles in shape, size and color a large single violet Pkt., 25c.

8583 **G. Wermig Alba.** A white variety of above. Pkt., 10c.

## ZINNIA □

6017 **Early Wonder.** The first of a new race of dwarf, early flowering Zinnias. When in full bloom the plants stand between 12 and 15 inches high, producing flowers similar to the Pumila type, borne on medium size, long stems, making it a very fine flower for cutting. The color is a fiery salmon-cerise pink. The stems start from the ground, have no laterals and very few leaves, and when growing in mass could be described as leafless, producing a solid block of flower which is most attractive and desirable for bedding. Pkt., 20c.

6016 **Dahlia Flowered Crown O' Gold,** derives its name and distinction from the fact that each petal of the flower is overlaid with a deep golden-yellow at the base, while carrying out the individual flower color at the tip. The effect is a very pleasing two-tone color harmony, especially lovely and scintillating under artificial light. The color range comprises the more popular shades, including old rose, cream, yellow, carmine and burnished red—the latter a new shade in Zinnias. Pkt., 20c.

6137 **Dahlia Flowered Golden Dawn.** This beautiful shade of golden-yellow comes true to color and form. Pkt., 20c.

6129 **Dahlia Flowered Old Gold.** New glowing burnished deep and lighter shades of Old Gold. Pkt., 20c.

6161 **California Giant Brightness.** A very fine pink, which can be described as a bright, deep rose. Pkt., 20c.

6146 **California Giant Grenadier.** A very dark red, similar in color to Meteor in the Dahlia Flowered, a most desirable shade. Pkt., 20c.

6147 **California Giant Lavender Gem.** A color very closely resembling the now famous Dahlia Flowered Lavender Dream. Pkt., 20c.

6148 **California Giant Salmon Queen.** Closely resembling Old Rose. Pkt., 20c.

6149 **California Giant Violet Queen.** The shade of Violet Queen is similar to Purple Prince in the Dahlia Flowered and is the first of the dark shades developed in the Giant Mammoth type. The flowers are immense and true to the California Giant type. Pkt., 20c.

# Perennial Specialties

AQUILEGIA Dobbie's Imperial Hybrids

DELPHINIUM Blackmore and Langdon Strain

DIANTHUS Highland Queen

## ANEMONE

7076 **Coronaria Creagh Castle Strain.** Of Irish origin. It belongs to the St. Brigid variety which is well known. The flowers are extremely large and the range color exceptional. Pkt., 50c.

7078 **Coronaria The Governor.** Double bright scarlet flowers. Pkt., 25c.

## AQUILEGIA

7151 **Dobbie's Imperial Hybrids.** A very fine assortment made by a European hybridizer which will be sure to charm you by its dainty beauty. Pkt., 25c.

7158 **Long Spurred Blue Shades.** A fine long spurred variety in blue shades from light to dark. Pkt., 25c.

7159 **Long-Spurred Orange and Scarlet Shades.** A very attractive selection and well worth trying. Pkt., 25c.

7127 **Chrysantha Grandiflora Sulphurea.** Soft sulphur-yellow flowers, 3 ft. Pkt., 25c.

7171 **Vulgaris Compacta Edelweiss.** One of the earliest spring flowers. The plants are 16 to 20 inches high, are covered with large erect snow-white blossoms. Pkt., 25c.

## ASTER

7224A **Amellus Beauty of Ronsdorf.** Large lilac-rose flowers in great profusion; plants two feet high, branching freely; blooms in August, September; one of the best. Pkt., 25c.

7223A **Amellus Roseus.** Very like the Beauty of Ronsdorf, except in color, which is a clear rose. Pkt., 25c.

7229 **Farreri.** The color is a soft tone of violet-mauve, with large golden orange disk and the flowers are from 2 to 3 inches across. Blooms in June and July. The discoverer reported it was "The most glorious aster he had ever seen." Pkt., 35c.

7228A **Subcoeruleus Star of Eisenach.** A new giant flowered race of these popular Spring Asters. Bright lavender-blue Marguerites with yellow centers measuring more than four inches across and in flower end of May and June. Pkt., 25c.

7229A **Yunnanensis.** Blooms in early Summer. Flowers brilliant lilac-blue with yellow disk. Pkt., 35c.

## BEAUTY BUSH

7236 A free flowering shrub of extreme hardiness, 5 to 7 ft. Flowers are borne in rounded clusters of pure pink color followed by curious cobwebby fruits. Introduced from China by E. H. Wilson. The botanical name is Kolkwitzia Amabilis. Pkt. (50 seeds), 50c.

## CAMPANULA

7334 **Fragilis.** Is of prostrate trailing habit, and has large pale blue flowers. It likes a well-drained position with as little moisture as possible. Extremely free-blooming (not hardy). Pkt., 25c.

7333 **Glomerata Superba.** Beautiful dark violet flowers borne on clusters at the top and all the way up the stalks. A splendid cut flower and border variety for full sun or partial shade. June-July. 20 in. Pkt., 25c.

7347 **Persicifolia Grandiflora. Large Bell.** Large blue cup-shaped flowers. 2½ ft., Pkt., 25c.

7348 **Persicifolia Grandiflora Fl. Pl. Moerheimi.** Flowers large, semi-double, cupshaped. Pure white, 2 ft. June-July. Pkt., 25c.

7353 **Persicifolia Fl. Pl. Pfitzeri.** Same as above but flowers blue. 2½ ft. Pkt., 25c.

7371 **Rotundifolia Olympica.** A fine alpine from the Olympian Mountains of the State of Washington. It grows 10 to 12 inches high and blooms freely through the Summer and Fall. The light blue bells are about one inch across and the same in length. The flower stalks carry grass like leaves which grow from a creeping root, which is covered with round heart shaped leaves. (This was offered under name of Piperi last year). Pkt., 35c.

## CARNATION

7398 **Grenadin Golden Sun.** This is a true golden-yellow and it completes the color range of the Grenadin family as offered in our general list of Perennials. Pkt., 25c.

7396 **Grenadin Tausendschon.** This new variety shows a wonderful play of color, from soft rose and salmon rose to bright pink. Brings a high percentage of double flowers. Pkt., 25c.

## CHELONE

8319 **Barbata Praecox.** (Early Flg.) These early flowering hybrids grow about 3 to 4 ft. high, with flowers varying in shade from pink to cherry-red, in pretty spikes—a desirable cut flower. Pkt., 15c.

## CHRYSANTHEMUM

7463 **Maximum Conqueror.** This new variety produces very large, pure white flowers, five inches in diameter, borne on long stiff stems, produced in profusion. The blooming takes place in about mid-season and it is one of the, if not the best variety for cutting on the market. Pkt., 15c.

## COREOPSIS

7496 **Lanceolata Grandiflora Fl. Pl.** (Double Flowering Coreopsis) This new double and semi-double form is just as easy to grow as the single and the extra petalage adds a further charm to the flower. Pkt., 15c.

7497 **Diadem (Grandiflora Auriculata Superba).** Its large single flowers, several tones deeper than the well-known Grandiflora, measuring 3 inches across, are borne on long stiff stems. A serrated band of brownish-red encircles the golden disc. Pkt., 25c.

## DIANTHUS Plumarius

7584 **Highland Queen.** The most brilliant perennial Dianthus in cultivation, bearing in profusion flowers of a lustrous scarlet vermilion color. It is extremely hardy, of vigorous growth, and ideal for bedding, borders and the rock garden, continuing in bloom from the end of May until November. Pkt., 25c.

## DELPHINIUM

7536 **Elatum Hybridum Lamartine.** (Almost true from seed.) Dark blue; single. Pkt., 25c.

7537 **Elatum Hybridum Mrs. H. J. Jones.** Single Cambridge blue, extra long spikes. Pkt., 25c.

7538 **Elatum Hybridum Rev. E. Lascelles.** Deep violet blue, large clear white eye. (Comes almost true from seed.) Pkt., 25c.

## XXX Hybrids Separate Colors

One of our growers who is a specialist in the culture of Delphinium seed has been at work on an improved strain of this and has segregated different colors into various shades which we are glad to offer as follows:

7556 **XXX Light Blue Shades.** Pkt., 35c.

7557 **XXX Dark Blue Shades.** Pkt., 35c.

7558 **XXX Mid-Blue Shades.** Pkt., 35c.

7559 **XXX Pastel Shades.** Pkt., 35c.

7568 **Double Selecta.** Extra double new hybrids, mixed, producing 90% extra double flowers of large size and excellent color variation. Pkt., 50c.

For other Delphiniums, see Color Section.

## EDELWEISS

7791A **Sibiricum.** Large flowered form of the Alpinum with woolly foliage and flower heads. Easily raised from seed. Requires dry, sunny location. Pkt., 25c

# Perennial Novelties and Specialties

LILIUM TENUIFOLIUM

LILIUM REGALE

LILIUM PHILIPPINENSE

## EUPHORBIA

7806 **Polychroma.** 1 ft. April-May. Leaves oblong and dark green, floral leaves different shades of yellow at flowering time. Flowers bright yellow, changing to rosy bronze, combines beautifully with Geum Lady Stratheden. Grows into fine compact bush. Little known but very desirable. Pkt., 25c.

## GAILLARDIA

7812 **Burgundy.** Shining wine-red flowers about 2½ in. in diameter, on long stiff stems, from June until Fall. Blooms from seed the same year, if sown early, comes 60% to 70% true from seed. Pkt., 25c.

## HELIANTHUS (Sunflower)

7902 **Rigidus Daniel Dewar.** Showy heads of golden yellow flowers with dark disk of gracefully curved petals. Fine for cutting, 4 ft. Pkt., 25c.

## HELENIUM

7876 **Autumnale Hybridum Nanum Praecox.** Remarkable early-blooming hybrids in bronze and crimson-brown shades. 3 ft. July-Sept. Pkt., 25c.

## HOLLYHOCK

8008A **Imperator Improved.** Very large fringed flowers six inches across with double rosette in center resembling a crested Begonia, colors ranging through delicate pink to cerise-salmon. Pkt., 25c.

7991 **Double Triumph.** Grows 4-5 ft. high and is of branching habit all the stems being studded by prettily waved and fringed flowers which appear in an entirely new range of colors and combinations of colors. Pkt., 25c.

## INCARVILLEA

8087 **Grandiflora Brevipes (Garden Gloxinia).** Large flowers, bright deep rose. 2 ft. Very handsome. Pkt., 25c.

## LILIUM (Lily)

8160 **Gloriosum.** This wonderful new race of hardy lilies contains the outstanding qualities of three distinct types—more height from L Sulphureum, greater color variation and brilliance and a longer blooming season from the crossing of L. Regale and L. Sargentiae.

Like Regale, L. Gloriosum blooms readily the second year from sowing and these new hybrids give an extended blooming season for over five weeks. This long season of bloom, strength of stem, together with the striking shades of coloring give this type further importance in the commercial cut flower field. The colors range from pure white with yellow center through rich ivory and cream tints to deep sulphur. In some cases the exterior color of the flowers and unopened buds is a rich and attractive rose pink. Pkt. (40 seeds), 65c.

8117B **Philippinense Formosanum.** This is an outstanding variety. It bears on slender leafy stem one long white trumpet shaped flower slightly marked externally reddish brown with reflexing petals. Blooms from seed the first year if sown early. Pkt., 50c.

8117 **Regale.** The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine. Blooms out-of-doors early in July, and seedling bulbs will flower the second year. Pkt. (250 seeds) 25c.

8117A **Tenuifolium (Coral Lily of Siberia).** It is a gem, perfectly hardy. One of the earliest to flower. 24 in. high with the flowers up and down on the stem. Blooms are deep scarlet in color and have recurled petals of waxy texture. Pkt. (120 seeds), 25c

HOLLYHOCK
DOUBLE TRIUMPH

## LINUM

8141 **Flavum Compactum Nanum.** This dwarf flax, a glowing golden yellow with dark green foliage, is especially attractive in rock gardens or as a dwarf group and border perennial. It blooms for months on end and if cut down after it has finished flowering, there will be a second show in the autumn. Pkt., 25c.

## LUPINUS POLYPHYLLUS

8166 **Chocolate Soldier.** Yellow, passing to chocolate. Pkt., 15c.

8168 **C. M. Prichard.** Pale salmon-orange with yellow. Pkt., 15c.

8169 **Luteus.** A strain of varying yellow shades, of the true polyphyllus type, coming fairly true from seed; very attractive. Pkt., 15c.

8179 **Vaughan's Special Mixture.** This is a choice mixture of the best perennial Lupins, English and other European strains being chosen to give the utmost variety, and including some of the most recent novelties. Pkt., 20c.

## LYCHNIS

8196 **Chalcedonica Salmon Queen.** Beautiful salmon shade. 3 ft. Pkt., 15c.

## MECONOPSIS

8222 **Baileyii.** The new and beautiful blue Thibetan poppy. It is a graceful plant, with downy pale green leaves, the brilliant Cambridge-blue pendant flowers, 4 inches across, being carried singly on stems about 2 feet high. Hardy perennial, thriving best in a shaded position. This is very difficult to grow. We will add what cultural instructions we can. Our own trials were not successful. Pkt. (100 seeds), 50c.

## MONARDA

8227 **Didyma Cambridge Scarlet.** Brightest glowing scarlet. July-August. Pkt., 25c.

## MYOSOTIS

8248 **Marga Sacher.** 10 in. Deep sky-blue flowers which measure 2/5 to 3/5 inches across. Pkt., 50c.

## OENOTHERA

8256 **Clutei.** From a large rosette of basic leaves it throws up a stout central stalk some 4 ft. in height bearing in great profusion large flowers of a soft yellow hue. A notable feature is that it does not close its petals during the day as is the case with many of this genus. Pkt., 25c.

8264 **Trichocalyx.** The plant is 12 to 15 inches high, fairly compact and branching, and bears a great number of blooms that follow each other in continuous succession. These are large, of the purest white, and adorned with beautiful golden anthers, which heightens their charm very considerably. The flowers also remain open all day. Pkt., 25c.

## SWEET WILLIAM

7661 **Purple Beauty.** The Dianthus Barbatus assortment is greatly enriched through the introduction of this new sort. It is a noteworthy color so far unknown among the Sweet William. The bright deep purple makes them especially suitable for effective bedding out purposes. It should also rapidly attain popularity as a cutting flower. The same method of cultivation should be adopted as with all Sweet Williams. Pkt. 25c.

# Perennial Novelties and Specialties

POPPY ORIENTAL (The Feltham)

VIOLA CORNUTA HANSA (See Page 5)

## PAPAVER NUDICAULE or ICELAND POPPY

8289 **Coonara Pink.** A charming warm rose-pink, faintly suffused with salmon-pink combining the pink ands almon shadings in won-derful delicacy. The plants are more vigorous than is usual in Iceland Poppies, and the flowers are much more freely produced on long, slender stems throughout the season. They will keep wel[ if cut in bud and the end of stems seared for a moment. If sown in the hot-bed in March or April, plants will bloom the same year. Pkt., 25c.

8276 **El Monte.** This is a deep tangerine orange selection from some giant Australian hybrids. The flowers are of enormous size, borne on long wiry stems. It comes true to color, is extremely easy to grow and can be produced in six months from seed. It is fine for cutting. Pkt., 25c.

8283 **Sunbeam Deep Yellow.** A large flowered and strong-growing strain, 15 to 18 inches high. Pkt., 15c.

8284 **Sunbeam Orange.** Pkt., 15c.

8285 **Sunbeam White.** Pkt., 15c.

## PAPAVER

8312 **Oriental The Feltham.** All the Oriental poppies have black blotches at base of petals. In this variety the flowers are all self colored. It has all or nearly all the various shades of the type, scarlet, orange-scarlet, apricot, etc., but without the dark base. Pkt., 25c.

## PRIMULA (Primrose)

These hardy Primroses are among our most delightful spring flowers. They require a partially shaded location.

8407 **Florindae.** A wonderful new hardy Primula growing 3 to 4 ft. high with huge leaves resembling Caltha Palustris. It bears from the end of June to late in August, 60 to 80 fragrant bright yellow pendant flowers at the top of its stem. Do well in full sun—heavy soil, hardy in Illinois. Pkt. 35c.

8407A **Helodoxa.** 2 ft. Tall slender spikes of golden-yellow flowers. Pkt., 50c.

8414 **Hybrida Red Hugh.** A strong-growing form with intense fiery red flowers produced in tiers and growing to two feet in height. June. Pkt., 50c.

8409 **Japonica All Red.** The Japanese primrose is one of the most stately and attractive species of the genus. It has large coarsely toothed leaves and flowers in various shades of red borne in several whorls on stems 1 to 2 ft. high. Pkt., 50c.

8413A **Pulverulenta Bartley Strain.** Flowers beautiful shades of rose and pink. Pkt., 50c.

8420 **Veris Grandiflora Coerulea.** The beautiful blue Polyanthus, extra fine variety, should be in every garden. Pkt., 50c.

8421 **Veris Grandiflora Red Shades.** Various shades of red in an attractive variety. Pkt., 50c.

8422 **Veris Elatior Gigantea (Polyanthus).** This is a selection made by a specialist over a long period of years. The flower spikes are 8 to 10 in. long, average ½ in. in width. The individual flowers are very large and are of pure white, dark red, pure yellow, pink and lilac and violet shadings. Pkt., 50c.

8411 **Sikkimensis.** 15 in. Yellow sweet-scented. Pkt., 50c.

## RANUNCULUS

8447 **Asiatica Ragionieri.** A very large strain in most distinct and uncommon colors. It produces besides the double flowers a percentage of charming single and semi-double ones, excellent for cutting. Pkt., 25c.

## SCABIOSA

**Columbaria.** It is a hardy low growing perennial with fine light green foliage, some of the flowers measuring two to two and a half inches across with short compact petals, borne on long, slender but strong stems. A splendid cut flower. A native of South Africa.

8493 **Delicate Lavender.** Pkt., 25c.

8494 **Delicate Pink.** Pkt., 25c

8492 **Caucasica, House's New Giant Strain.** A new strain of this handsome border plant, flowers very large and of beautiful form ranging in color from light azure-blue and lavender to deep blue and silvery white. Pkt., 25c.

## SENECIO

8506 **Clivorum Orange Queen.** Stately border plant; loves moisture. Rich orange flowers. July-August. 4 ft. Pkt., 25c.

8507 **Clivorum Othello.** A purple foliaged variety, with dark orange flowers. July-August. 4 ft. Pkt., 25c.

## SIDALCEA

8499 **New Hybrids.** Charming and elegant hardy border plant, growing 2 to 3 feet high, with graceful spikes of exquisite, long stemmed flowers the colors varying through light pink to deep rose shades. The blooms appear continuously throughout the summer months and are invaluable for cutting. Pkt., 15c.

## STATICE

8515A **Dumosa.** 2 ft. New. Dense cushions of pure silver-gray flowers; an improved Tartarica. 30 in. Pkt., 25c.

## TROLLIUS (Globe Flower)

8553 **Ledebouri, Golden Queen.** The plant is very vigorous, grows from three to four feet in height, but its chief value lies in the size of the flowers and the intense orange color, the extreme floriferousness and the constancy with which it flowers in autumn as well as early summer. It comes practically true to type from seed. (Seed germinates slowly, soak in hot water for six hours before sowing.) Pkt., 50c.

## VIOLA

8581×**Bosniaca.** Free-blooming, small deep purple flowers. Pkt., 25c.

8584×**Florariense.** This variety forms large compact plants producing a continuous profusion of bloom for a long period, considerably longer than other Violas. The flowers are a very pleasing shade of pale lavender. The plants continue to throw up flowers long after other varieties are withered up. Splendid rock garden plant. (Varies, does not come entirely true.) Pkt., 35c.

8584×**Gracilis Lord Nelson.** Glowing violet-purple, 6 in. April-August. Pkt., 35c.

8579A×**Johnny-Jump-Up or Viola Tricolor.** The probable ancestor of the pansy, whose native habitat is the cooler parts of Europe, has long been known to us as the Ladies' Delight, or Non-so-pretty of our grandmothers' gardens and is still a precious possession, even though we have to weed out the plants where they take possession and crowd more delicate kinds. They make a braver show than their aristocratic relative, the viola, which does not always survive our winter changes, and if allowed to seed will carpet the rose or iris bed wtih a sheet of tiny flowers. They are persistent bloomers and one may even find blossoms on some plant in mid-winter, although the stems are then hardly long enough to pick. Purple, blue and yellow are the three colors that give them their name and the combinations are variable; sometimes there will be a yellow blossom and below it on the same stalk one of yellow and blue. Pkt., 25c.

# Lawn Troubles and Their Remedies

By S. W. Decker,

University of Illinois

THE lawn is at the foundation of all good landscape developments. It may be considered the canvas upon which the landscape picture is developed, but differing from the painted picture in that the landscape scene is continually changing. Therefore, the lawn, holding such an important place in the home beautification program should receive first consideration.

It is only natural for one who is attempting to establish this foundation to be disappointed and alarmed when he sees a very promising lawn become a weed patch. This has been the experience of an unusually large percentage of people who have attempted to build a lawn during the past year.

CRAB GRASS

An examination of the weather records shows that the fall and winter of 1930-1931 were very dry and mild, while the summer of 1931 was dry and very hot. Consequently, fall seeded lawns made a poor growth due to the lack of moisture and heavy winter losses were experienced. The spring weather was very favorable for lawn grasses but the very hot days of June and July were more than the young grass could stand. The unusual losses caused by pests and diseases were due to a combination of weather conditions. The mild winter weather caused a very low mortality among the insects, so an unusually large number of white grubs, web worms and army worms made their appearance and helped to devastate the already weakened lawn.

Such conditions were trying enough upon a lawn which had every possible chance afforded by ideal soil properly prepared, seed planted at the proper time, accompanied with proper care. Where the lawn lacked one or more of these essential factors, failure was almost certain.

Lawn grasses grow best on a fertile loam soil, so in preparing the soil, strive to produce one of this type. A sandy soil may be improved by incorporating clay soil or by adding humus in the form of well rotted manure or peat. A clay soil may be lightened by the addition of sand or well rotted manure. Peat is not to be recommended for heavy soil with a heavy sub-soil.

The lawn seed bed should be finely pulverized to a depth of at least four inches. The area must be free of hills and hollows if a weedless lawn is to be expected. The ideal lawn grass is one which will produce a thick uniform turf as smooth as a floor. Unfortunately, all grasses of this type are shallow rooting, with the majority of the roots in the upper two and one half inches of soil. In a rough lawn the grass upon the hills suffers from drought and that is where weeds such as dandelions get started. Or in lawns of heavy soil, water may collect in the low places, freeze and smother out the grass, thus giving weeds a chance.

Lawns are best seeded with the coming of fall rains or very early in the spring, by oats planting season. Early fall seeding is important so that the young grass will have time to produce a deep root system. It will then be able to withstand the alternate freezing and thawing which kills many late seeded lawns. Early spring seeding is essential so that the grass can develop a strong root growth before the hot dry summer weather comes. All lawn grasses make their best growth during cool weather and the majority of them make little or no growth during very hot weather.

A person should be very critical of the lawn seed which he purchases. He should buy only the best seed carried by a reliable company. Thousands of people are annually seeding their lawns to weeds by reseeding with a lawn mixture of low quality. **Many of the more common weed seeds are not found in high grade lawn mixtures. This is especially true of crab grass which does not produce seed until after the more desirable lawn grasses have matured their seed, and the seed crops have been harvested.**

The majority of the common lawn weeds are naturalized pests, growing commonly in waste places. The seeds are long lived and may remain dormant for years awaiting favorable conditions for growth. The seeds gain entrance into the lawn through vile soil, by use of infested manure, or by wind or bird carried seeds.

## Crab Grass

Crab grass (Syntherisma sanguinalis) is perhaps the worst weed found in lawns. It is an annual, making its appearance in late May or June. Under lawn conditions, it has a creeping stem which keeps below the mower blades and roots at almost every node. It thus spreads over a considerable area, crowding out the more desirable grasses and producing seed freely. Crab grass is yellowish green in color turning to a reddish brown upon the approach of cool weather and is killed by the first frost. A satisfactory control has not been found. The surest way is to pull the plants during June and July. After this time they have spread and rooted at the nodes, making pulling very difficult. From August until frost, crab grass produces seed freely, so if plants are still in the lawn, go over the area frequently with a rake to pull up the growing tips and cut them off in mowing. A heavy turf produced early in the spring is the lawn's best protection. Blue grass makes little or no growth when the temperature goes above 90° F daily, yet crab grass thrives best at this time. Watering crab grass infested lawn, thus, produces ideal conditions for this pest.

WHITE GRUB

## Chickweed

The common chickweed (Stellaria media) is a very serious pest in the shady parts of the lawn. The chickweeds may be burned out of the lawn by the use of ammonium sulphate. Sprinkle the area to be treated and apply ammonium sulphate lightly. Allow it to remain a day and then water freely, washing the material into the soil where it stimulates the growth of grass. Any spray treatment recommended for dandelions is effective for chickweed control.

## Knot Grass

Knot grass (Polygonum aviculare) has been a common lawn pest this past season. It thrives best where the soil is trampled, so is often found along walks and in bare spots. Plants found growing in the lawn should be pulled. It is easily discouraged by a heavy growth of grass and this is the best control measure to be offered at this time.

## Dandelions and Plantains

Dandelions and plantains need no introduction to gardening friends. Much has been written about their control and many of the methods will give satisfaction. However, a weed free lawn can be had only by securing and maintaining a heavy sod. A regular feeding schedule should be followed. Three feeds a season are recommended: a first when the grass begins to grow, a second in June, and a third when fall rains come. Any of the garden fertilizers may be used as recommended or often ammonium sulphate is used at the rate of three pounds to 1000 sq. ft. in the spring. All fertilizers should either be watered in or applied when the grass is dry. Then go over the area with a rake to remove the fertilizer from the grass and wash in thoroughly with a hose.

## Damage By Insects

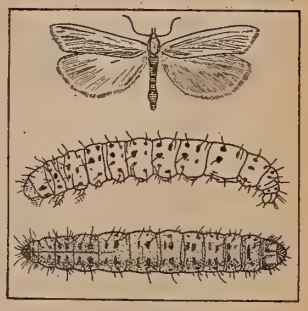
Along with unfavorable weather conditions, there has been the damage of white grubs, web worms and army worms. They have killed an enormous amount of grass by feeding upon the roots and stalks. In the more severe cases, lawns were destroyed in a few days.

The web worms have probably caused the most damage. They are the larvae of a little white and yellowish brown moth. The moths lay their eggs in early June on the blades of grass. These hatch in about ten days and the young larvae move down into the soil where they form a loose silken web while feeding on grass roots. In late July the larva forms a cocoon and a little later emerges as a moth. The moths in turn, lay eggs, which hatch and the larva becomes partly grown before winter, completes its growth the following spring, pupates and then the moth emerges in June.

Injury from web worms is seldom serious so no sure control can be suggested. It is probable, however, that arsenate of lead applied in dust form to a dry lawn at the rate of five pounds to 1000 sq. ft. and worked into the grass with a rake or broom and then watered into the soil with a coarse stream of water will give a satisfactory control. The Pyrethrum preparations on the market have also been found satisfactory remedies and experiments last summer indicated that they may prove more effective than the arsenate of lead.

The white grub which is the larva of the June bug is often troublesome. The June bug prefers to lay its eggs in a soil high in organic matter. The eggs are laid during May and June, hatch, and the larva feeds on organic matter, preferably. As cold weather approaches, the larva goes down, so by winter it is below the frost line. The following spring it comes up near the surface to feed, often feeding on roots, killing the grass in circular spots. Arsenate of lead, five pounds to 1000 sq. ft., watered into the soil is an effective control.

The cut worm and the army worm are not common lawn pests. However, they are often troublesome in the garden and during the past summer they have done considerable damage to many lawns. These two insects are often confused. Both are good sized worms which work while the sun is not shining and damage the grass by cutting it off close to the ground level. They seldom cause any damage after a few warm sunny spring days. A bait made by adding one tablespoon of Paris green to a quart of bran and dampening the mixture with a pint of water to which has been added two tablespoons of syrup and a few drops of lemon juice, is an effective control. The bait should be spread lightly over the infested area toward evening.



SOD WEB WORM

### Insecticides for Lawns

Arsenate of Lead (dry) 1 lb., 50c; 4 lbs., $1.50; 24 lbs., $5.00.

Pyrethrum Preparations. Evergreen, 6 oz., $1.00; 16 oz., $2.00; Gal., $8.63. Red Arrow, oz., 35c; ½ pt., $1. 75; gal., $18.00.

Purfeck, chickweed eliminator, qt., 75c; gal., $2.00; 5 gals., $9.00.

# Vaughan's Fancy Grass Seeds

## Seed of the Bent Grasses

**EUROPEAN MIXED BENT** (so-called "Creeping Bent") is a natural mixture of Bents including true Creeping Bent, Velvet Bent, and a large percentage of Rhode Island Bent. Seed at the rate of 3 to 4 lbs., per 1,000 sq. ft. ¼ lb., 45c; ½ lb., 80c; 1 lb., $1.50; 2 lbs., $2.95; 3 lbs. $4.40; 5 lbs., $7.25; 10 lbs., $14.00; 15 lbs., $20.75; 20 lbs., $27.50; 25 lbs., $33.00.

The important advantage of the Bent Grasses is that they like acid soils and can be fed with acid reacting fertilizers, such as Ammonium sulphate, the constant use of which discourages weeds.

**RHODE ISLAND BENT GRASS.** It makes a fine close turf of excellent color and adapts itself readily to any soils, particularly acid soils. This grass also makes good putting green turf.

Rhode Island or Colonial Bent, ¼ lb., 45c; ½ lb., 85c; 1 lb., $1.70; 2 lbs., $3.40; 3 lbs., $5.05; 5 lbs., $8.25; 10 lbs., $16.00; 15 lbs., $23.75; 20 lbs., $31.30; 25 lbs., $38.75.

**ASTORIA BENT.** This grass has creeping roots and makes a splendid lawn and golf grass. ¼ lb., 45c; ½ lb., 80c; 1 lb., $1.50; 2 lbs., $2.95; 3 lbs., $4.40; 5 lbs., $7.25; 10 lbs., $14.00; 15 lbs., $20.75; 20 lbs., $27.50; 25 lbs., $33.00.

## Cocoos Bent

We carry only genuine Cocoos Bent seed grown by Lyman Carrier, the originator of Cocoos Bent. This is a true unmixed creeping bent grass seed. One top-dressing a year will keep it in good condition.

1 lb., $2.75; 2 lbs., $5.50; 3 lbs., $8.10; 5 lbs. $13.25; 10 lbs., $25.00; 25 lbs. $60.00; 50 lbs., $115.00; 100 lbs., $225.00.

**Write for special prices on large quantities.**

ITEMS BELOW ARE SHIPPED AT BUYER'S EXPENSE. ADD POSTAGE, OR ASK US TO EXPRESS, CHARGES COLLECT.

## FESCUES

**CHEWING'S FESCUE (New Zealand-Grown)**—There is very little difference between this and the European-grown Red Fescue. Chewing's is in even greater demand for Putting Greens than the Red Fescue. Best seeded alone when used for greens. It is a perennial and makes a fine turf. Does well in sandy soils, and in the shade. Sow either Spring or Fall, preferably the last week in August or the first week in September, at the rate of 5 lbs. to 1,000 sq. ft. 1 lb., 60c; (by mail, 65c), 2 lbs., $1.15; 3 lbs., $1.65; 5 lbs., $2.45; 10 lbs., $4.75; 15 lbs., $7.00; 20 lbs., $9.25; 25 lbs., $11.25; 50 lbs., $22.75; 100 lbs., $43.50.

**RED OR CREEPING FESCUE (FESTUCA RUBRA)**—True red fescue, grown in Germany, 1 lb., 80c (by mail, 85c); 2 lbs., $1.55; 3 lbs., $2.25; 5 lbs., $3.60; 10 lbs., $7.00; 25 lbs., $17.00; 50 lbs.; $33.00; 100 lbs., $65.00.

**SLENDER FESCUE OR FINE-LEAVED SHEEP'S FESCUE (FESTUCA TENUIFOLIA)**—Of value as a lawn and pasture grass where it does well on dry and inferior soils as well as in shady places. Sow in Fall or Spring, 30 to 50 lbs. per acre. 1 lb., 55c (by mail, 6°c); 2 lbs., $1.05; 3 lbs., $1.50; 5 lbs., $2.20; 10 lbs., $4.25; 15 lbs., $6.25; 25 lbs., $10.00; 50 lbs., $20.25; 100 lbs., $39.00.

**SHEEP'S FESCUE (FESTUCA OVINA)**—A good grass for upland pastures and for sandy and poor soils. It is very hardy and resists extremes of weather. It grows in tufts, but its fine foliage make it a desirable grass for many purposes. Much used for the "rough" on golf courses. Sow in Fall or Spring, 30 to 50 lbs. per acre. 1 lb., 45c (by mail, 50c); 2 lbs., 85c; 3 lbs., $1.25; 5 lbs., $1.85; 10 lbs., $3.50; 25 lbs., $8.35; 50 lbs., $16.00; 100 lbs., $31.00.

**HARD FESCUE**—Similar to sheeps fescue. 1 lb., 45c (by mail 50c); 2 lbs., 85c; 3 lbs., $1.25; 5 lbs., $1.85; 10 lbs., $3.50; 25 lbs.; $8.35; 50 lbs., $16.00; 100 lbs., $31.00.

**POA ANNUA.** An annual blue grass that reseeds itself. This grass does not grow very tall. 1 lb., $1.00 (by mail, $1.05); 2 lbs., $1.95; 3 lbs., $2.85; 5 lbs., $4.50; 10 lbs., $8.50; 15 lbs., $12.50; 20 lbs., $16.30; 25 lbs., $20.00; 50 lbs., $38.50; 100 lbs., $75.00.

**ENGLISH BLUE GRASS OR MEADOW FESCUE (FESTUCA ELATIOR PRATENSIS)**—A native of Europe, it has become very thoroughly naturalized here. Should be sown with other grasses. Particularly a pasture or meadow grass. Ours is choice American-grown. Sow in Fall or Spring, 30 to 50 lbs. per acre. 1 lb., 25c (by mail, 30c); 2 lbs., 40c; 3 lbs., 55c; 5 lbs., 75c; 10 lbs. $1.40; 25 lbs., $3.00; 50 lbs., $5.50; 100 lbs., $10.00.

**ORCHARD GRASS (DACTYLIS GLOMERATA)**—A very hardy grass, invaluable for pasture mixtures. Ready to cut for hay before Timothy. Not adapted to wet soils. It should not be used in lawn mixtures as it is too coarse and tufted. Sow in the Spring, 25 to 30 lbs. per acre. 1 lb., 30c (by mail, 35c); 2 lbs., 55c; 3 lbs., 75c; 5 lbs., 95c; 10 lbs., $1.75; 25 lbs., $4.00; 50 lbs., $7.25; 100 lbs., $13.50.

**ROUGH STALKED MEADOW GRASS (POA TRIVIALIS)**—An ideal shade grass in the Northern half of the United States if it can have enough moisture. This grass is a perennial closely related to Kentucky Blue Grass, but somewhat finer and softer. It has a splendid apple-green color and is a creeper. Sow in Fall or Spring at rate of 1 lb. to every 300 sq. ft. 1 lb., 50c (by mail, 55c); 2 lbs., 95c; 3 lbs., $1.35; 5 lbs., $2.00; 10 lbs., $3.75; 15 lbs., $5.50. 20 lbs., $7.25; 25 lbs., $8.75; 50 lbs., $17.00; 100 lbs., $33.00.

**WOOD MEADOW GRASS (POA NEMORALIS)**—Used as a shade grass in the Northern half of the United States. It is a very good shade grass that grows well in rather dry soils and should not be used in moist places. A perennial closely related to Kentucky Blue Grass. Sow in Fall or Spring 1 lb. to every 300 sq. ft. 1 lb., 70c (by mail, 75c); 2 lbs. $1.35; 3 lbs., $1.90; 5 lbs., $2.90; 10 lbs., $5.60; 25 lbs., $13.65; 50 lbs., $26.50; 100 lbs., $52.00.

## RYE GRASSES

**ENGLISH OR PERENNIAL RYE GRASS (LOLIUM PERENNE)**—Does very well in this country. Good for both pastures and meadows. Moist and rich clays or loams are the soils best suited to it; the seed is heavy and very quick to start. Also a good lawn grass where quick results are wanted. Sow in Spring or Fall, 30 to 40 lbs. per acre for pasture. Standard weight, 24 lbs. to the bushel—our seed extra heavy quality, 27-28 lbs. to the bushel. 1 lb., 30c (by mail, 35c); 2 lbs., 60c; 3 lbs., 75c; 5 lbs., $1.10; 10 lbs., $2.10; 25 lbs., $4.90; 50 lbs., $9.00; 100 lbs., $17.00.

**PACEY'S ENGLISH OR SHORT SEEDED RYE GRASS**—A strain selected for its greater yield. The seed is smaller and runs more to the bushel than the standard variety. 1 lb., 35c (by mail, 40c); 2 lbs., 65c; 3 lbs., 85c; 5 lbs., $1.15; 10 lbs., $2.15; 25 lbs., $5.00; 50 lbs., $9.25; 100 lbs., $17.50.

**ITALIAN RYE GRASS (LOLIUM ITALICUM)**—Likes a rich, moist, loamy soil where it does remarkably well and produces good hay and pasturage. Desirable for this purpose in temporary pastures. It is almost an annual, generally lasting a second year, however. Develops very rapidly. Valuable in lawn grass mixtures demanding immediate effect. Used in the South for winter lawn grass. Sow in October in the South, Spring or Fall in the North, 30 to 40 lbs. per acre for pasture; 4 to 7 lbs. per 1,000 sq. ft. on lawns. 1 lb., 30c. (by mail, 35c); 2 lbs., 55c; 3 lbs., 70c; 5 lbs., $1.05; 10 lbs., $2.05; 25 lbs., $4.75; 50 lbs., $8.75; 100 lbs., $16.50.

**DOMESTIC RYE GRASS**—A natural mixture of the English and Italian Rye Grass, grown in this country. 1 lb., 25c (by mail, 30c); 2 lbs., 40c 3 lbs., 55c; 5 lbs. 75c; 10 lbs., $1.40; 15 lbs., $2.00; 20 lbs., $2.50; 25 lbs., $3.00; 50 lbs., $5.50; 100 lbs., $10.00.

**Let us help you solve your lawn grass problems. Advice gladly given.**

**TIMOTHY (PHLEUM PRATENSE)**—The most popular of all hay grasses. Growth is very rapid.

Vaughan's Fancy seed (99.5% pure or better), 1 lb., 25c (by mail, 30c); 2 lbs., 45c; 3 lbs., 60c; 5 lbs., 75c; 10 lbs., $1.20; 25 lbs., $2.50; bu., $3.85; 50 lbs., $4.25; 100 lbs., $7.50.

**BERMUDA GRASS (CYNODON DACTYLON)**—The grass for Southern lawns and pastures; hard to kill; resists drought. Should be planted for permanency only in the South; winter kills in the North. Sow in Spring, 100 lbs. per acre for lawns (30 lbs. to bushel). 1 lb., 45c (by mail, 50c); 2 lbs., 85c; 3 lbs., $1.20; 5 lbs., $1.75; 10 lbs. $3.30; 25 lbs., $7.90; 50 lbs., $15.00; 100 lbs., $29.00.

**CANADA BLUE GRASS (POA COMPRESSA)**—A hardy grass with creeping root stocks. Adapted to all soils and very valuable on poor soils and clay soils. Recommended for Eastern States for dairy use. Sow 40 to 60 lbs. per acre for pasture; 135 to 145 lbs. per acre for lawns, in Fall or Spring. 1 lb., 40c (by mail, 45c); 2 lbs., 75c; 3 lbs., $1.00; 5 lbs., $1.50; 10 lbs., $2.85; 15 lbs., $4.20; 25 lbs., $6.75; 50 lbs., $13.00; 100 lbs., $25.00.

**AWNLESS BROME GRASS (BROMUS INERMIS)**—Very strong, quick growth making two crops of very abundant pasture. It prevents washing on the banks of streams. Sow in the Spring, 2 bushels per acre. (14 lbs. to bushel) 1 lb., 40c (by mail, 45c); 2 lbs., 75c; 3 lbs., $1.00; 5 lbs., $1.40; 10 lbs., $2.60; 25 lbs., $6.85; 50 lbs., $11.50; 100 lbs., $22.00.

**CRESTED DOGSTAIL (CYNOSURUS CRISTATUS)**—Fine leaved perennial, best in rich, moist soils. (21 lbs. to bushel.) 1 lb., 50c (by mail, 55c); 2 lbs., 95c; 3 lbs., $1.35; 5 lbs., $2.00; 10 lbs., $3.90; 25 lbs., $9.40; 50 lbs., $18.00; 100 lbs., $35.00.

## Golf

We have a golf department prepared to give expert service. Let us quote on your requirements.

### Fertilizers are Needed to Make Lawns Grow

Fine lawn grasses require rich soil in which to do their best. When properly fed they will grow so luxuriantly as to crowd out weeds. Grass which is constantly cut makes a heavy drain on the food content of soil, and unless this is annually renewed, a lawn will deteriorate. On page 101 are listed fertilizers of all types which are recommended for lawns. Our free booklet "Your Lawn" gives definite instructions on the use of fertilizers.

### Nu Green

A grass disinfectant for brown patch prevention and control. 3 oz. tin, 50c; lb., $2.00; 5 lbs., $9.00; 25 lb. pail, $37.50; 100 lb. drum, $145.00. Write us for booklet.

## SPECIAL LIST OF FIELD SEEDS.

We carry a complete list of clover and other farm and field seeds of the highest quality. A laboratory report of purity and germination sent with every lot. A special price list will be sent upon application, or we will quote specially upon your exact needs. FIELD SEED DEPARTMENT.

**Vaughan's Seed Store, 47-49 Barclay St., New York**

## Creeping Bent Stolons

They produce a fine lawn in one season, but must have extra care, several top dressings a year and frequent mowing. For $20.00 we will send you enough runners and roots of the grass to plant 1,000 square feet. 500 sq. ft. for $11.50; 250 sq. ft. for $6.50. Express charges from growing station are extra. If large quantities are desired ask for a special quotation. We furnish complete directions. A leaflet about Creeping Bent Stolons will be sent upon request. May and June are best for spring planting of stolens. They can be planted earlier if weather permits. Fall planting from late August to the latter part of September.

# Vaughan's Lawn Seed CONTAINING NO TIMOTHY

AUTHORITATIVE investigators are agreed that the greatest handicap to good lawns in the United States is cheap seed adulterated with timothy. Enormous quantities of so-called lawn seed are sold which contain little or no seeds of permanent lawn grasses, but are chiefly composed of timothy, a coarse hay, which comes up quickly but inevitably ruins a lawn. Vaughan's Lawn Seed formulas CONTAIN NO TIMOTHY.

There is no excuse in these days for guess work about seed. Laboratory tests show its purity and its germination. We do not buy, nor do we sell, seed which fails to meet our high standards, by test in our own seed laboratory.

Vaughan's "Parks" lawn seed has been sold by us for 55 years. In the beginning it was prepared according to a careful formula, for use in the Chicago parks, which were even then famous. The value of this formula has been proved by recent Department of Agriculture experiments confirming our experience.

### HOW TO MAKE A LAWN

Your lawn either makes or mars your home and if you would be successful you must closely follow simple rules which if ignored mean failure. The essentials to a perfect lawn are: good seed, correct soil conditions and proper subsequent care. These points are carefully explained in our pamphlet "Your Lawn," written for your guidance and which may be had free upon request. A copy of this pamphlet is contained in every carton of Vaughan's Lawn Seed.

We cannot urge too strongly that you follow these directions as soil conditions, fertilizer and correct seeding methods are as necessary to success as is the fine quality of Vaughan's Lawn Grass blends.

**Quantity to Use**—On new lawns, use 1 lb. for every 300 square feet; 5 lbs. for 1500 square feet; 135 to 145 lbs. for one acre. To replenish lawns where turf is thin use half quantity.

## Vaughan's "Parks" Lawn Seed
## The Standard Lawn Formula

This blend is composed of heavy, recleaned seed, blended according to the formula proved in our 55 years' experience to be the best for permanent lawns under American conditions and recommended by the Department of Agriculture. Recleaned Kentucky blue grass and red top form the bulk of this blend, to which is added white clover in the correct proportion. Our blend produces a lawn that will endure. Price. ½ lb., 25c; 1 lb., 50c; 2 lbs., 95c; 3 lbs., $1.40; 5 lbs., $2.25; 10 lbs., $4.00; 15 lbs., $5.85; 20 lbs., $7.60; 25 lbs., $9.25; 50 lbs., $18.00; 100 lbs., $35.00.

## Vaughan's Special Grass Formula "Private Estate"

This contains a good proportion of the expensive Bent Grasses, and extra heavy Kentucky Blue Grass.

Price, lb., 70c; 2 lbs., $1.35; 3 lbs., $2.00; 5 lbs., $3.25; 10 lbs., $6.30; 15 lbs., $9.30; 20 lbs., $12.20; 25 lbs., $15.00; 50 lbs., $29.50; 100 lbs., $58.00.

## Vaughan's No. 40 Lawn Formula

**Intermediate Grade**

Price, lb., 40c; 2 lbs., 75c; 3 lbs., $1.10; 5 lbs., $1.80; 10 lbs., $3.50; 25 lbs., $8.00; 50 lbs., $15.50; 100 lbs., $30.00.

## Vaughan's No. 25 Lawn Formula

An economy blend for new seedings and quick results which should be followed by reseeding with a more permanent blend like our "Parks." In spite of its low price this blend does not contain timothy. Sow this blend at rate of 1 lb., to every 200 sq. ft. Cut regularly to keep turf fine. Price, 1 lb., 25c; 2 lbs., 45c; 3 lbs., 65c; 5 lbs., $1.00; 10 lbs., $2.00; 15 lbs., $2.95; 20 lbs., $3.90; 25 lbs., $4.75; 50 lbs., $9.00; 100 lbs., $16.00.

## Fancy Kentucky Blue Grass (Poa pratensis)

EXTRA FANCY SUN CURED SEED—Specially recleaned; 23 lbs. per bushel. 1 lb., 45c; 2 lbs., 85c; 3 lbs., $1.15; 5 lbs., $1.75; 10 lbs., $3.35; 15 lbs., $4.90; 20 lbs., $6.30, 25 lbs., $7.60; 50 lbs. $14.50; 100 lbs., $28.00, prepaid to 300 miles.

Fancy Seed, actual weight, 21 lbs. per bu. (The standard grade of recleaned blue grass.) 1 lb., 40c; 2 lbs., 75c; 3 lbs., $1.00; 5 lbs., $1.50; 10 lbs., $2.85; 15 lbs., $4.20; 20 lbs., $5.50; 25 lbs., $6.75; 50 lbs., $13.00; 100, lbs., $25.00, prepaid to 300 miles.

## White Clover

Extra fancy seed. Price, ¼ lb., 25c; ½ lb., 40c; 1 lb., 70c; 2 lbs., $1.40; 3 lbs., $2.00; 5 lbs., $3.30; 10 lbs., $6.50; 15 lbs., $9.60; 20 lbs., $12.60; 25 lbs., $15.50; 50 lbs., $30.00; 100 lbs., $58.00, prepaid to 300 miles.

## Red Top Grass (Agrostis alba)

Extra Fancy recleaned solid seed (32 lbs. per bu.): 1 lb., 35c; 2 lbs., 65c; 3 lbs., 90c; 5 lbs., $1.40; 10 lbs., $2.65; 15 lbs., $3.85; 20 lbs., $5.00; 25 lbs., $6.00; 50 lbs.; $11.50; 100 lbs., $22.00, prepaid to 300 miles.

## Vaughan's "Columbian"

**For Shady Lawns or Sandy Soil**

When making a lawn on sandy soil or in light shade, conditions are met with which require the use of a special grass seed blend. Vaughan's "Columbian" is the correct blend for such locations.

½ lb., 25c; 1 lb., 50c; 2 lbs., 95c; 3 lbs., $1.40; 5 lbs., $2.25; 10 lbs., $4.00; 15 lbs., $5.85; 20 lbs., $7.60; 25 lbs., $9.25; 50 lbs., $18.00; 100 lbs., $35.00.

## Vaughan's Dense Shade Formula

Composed of grasses most suited for growing in heavily shaded situations. A splendid mixture. It is also satisfactory in light shade. Price, 1 lb., 65c; 2 lbs., $1.30; 3 lbs., $1.90; 5 lbs., $3.10; 10 lbs., $6.00; 15 lbs., $8.85; 25 lbs., $14.50; 50 lbs., $28.00; 100 lbs., $55.00.

## Vaughan's Tennis Court Formula

Excellent for Tennis Courts, Cricket Grounds and Bowling Greens, made up of deep-rooting, hard-wearing grasses.

Price, lb., 55c; 2 lbs., $1.10; 3 lbs., $1.60; 5 lbs., $2.60; 10 lbs., $5.00; 25 lbs., $12.00; 50 lbs., $23.00; 100 lbs., $45.00.

## Vaughan's Terrace Formula

A blend of grasses that root quickly and form a good turf under conditions as met with on terraces.

Lb., 55c; 2 lbs., $1.10; 3 lbs., $1.60; 5 lbs., $2.60; 10 lbs., $5.00; 25 lbs., $12.00; 50 lbs., $23.00; 100 lbs., $45.00.

## Vaughan's Fairway Formula

For Fairways we recommend a simple, but very well-proportioned blend of Kentucky Blue Grass and Red Top, which gives excellent results and if properly cared for improves with age.

Price, lb., 50c; 2 lbs., 95c; 3 lbs., $1.40; 5 lbs., $2.25; 10 lbs., $4.00; 15 lbs. $5.85; 20 lbs., $7.60; 25 lbs., $9.25; 50 lbs., $18.00; 100 lbs., $35.00. Sow 100 to 150 lbs. to the acre. Special prices quoted on large quantities.

## Vaughan's Putting Green Formula

We offer a blend of fancy grasses that make a very fine turf for lawns, but recommend that only one kind of grass be used on putting greens, e.g., European Mixed Bent, or Chewing's Fescue, etc.

Price, lb., 70c; 2 lbs., $1.35; 3 lbs., $2.00; 5 lbs., $3.25; 10 lbs., $6.30; 15 lbs., 9.30; 20 lbs., $12.20; 25 lbs., $15.00; 50 lbs., $29.50; 100 lbs., $58.00.

**On orders under $2.00 or beyond prepaid zone, add 5c per lb. for postage. Lawn Seed orders of $2.00 or more are prepaid to within 300 miles of Chicago or New York. On Parcels Post C. O. D. orders there is an extra charge for C. O. D. delivery.**

# Surprise Collections

TOWARDS the close of our spring shipping season we have a surplus in many varieties of Perennials, Rock plants, Cannas, Chrysanthemums, Dahlias, Roses, annuals, and other bedding plants. Generally we dispose of them to wholesale customers but this year we are offering the following bargains. Shipment to be made at close of our regular shipping season, June 1 to 15th, and selection of varieties to be left with us. We guarantee these Surprise collections to contain a good selection of varieties at about half our regular catalog price. All varieties are labeled.

**PERENNIALS.** Our selection of good varieties. Tall for back ground effect. 6 for 90c. Medium height for average perennial border, 6 for 90c. Low for edging and border effects. 6 for 90c.

**HARDY ROCK PLANTS.** Our selection of good varieties. Six plants for 90c.

**PHLOX** (Hardy). 4 plants all different, our selection for 90c.

**CANNAS.** Four pot plants, 3 inch, our selection for 60c.

**DAHLIAS.** Our selection, healthy roots. 4 Fancy Show Roots for 75c; 4 Decorative Roots for $1.00.

**ANNUAL BEDDING PLANTS.** 6 good varieties, our selection for 50c; 6 for Window Boxes for 50c;

**DELPHINIUM.** Our selection of four different varieties for 85c.

**HARDY CHRYSANTHEMUMS.** 6 plants, our selection of early blooming sorts in different colors for 90c.

Above collections can be sent by Parcel Post. Kindly send postage with your order. Average shipping weight of each collection is three pounds.

**PERENNIALS.** 25 plants, by express, our selection of good varieties for $3.50.
We can supply tall, medium or low growing varieties. A mixture will be sent if you do not specify.

**CANNAS.** 50 pot plants, 3 inch, our selection of varieties, by express for $6.00.

**ROSES, POT GROWN.** Our selection of good varieties, by express. 2 Hybrid Teas for $1.45; 2 Hardy Climbing for $1.45.

**ANNUAL BEDDING PLANTS.** Good varieties of Annual Bedding plants, carefully selected, by express. 50 for $3.75; 100 for $7.00.

**HARDY ROCK GARDEN PLANTS.** Our selection, low growing varieties. 25 plants, by express, for $3.50.

**HARDY CHRYSANTHEMUMS.** The best sorts, different colors, our selection. 25 plants by express for $3.00.

Note that above collections cannot go by parcel post but must be shipped by Express at buyer's expense.

**Shipment of above Surprise Collections to be made after June 1.**

## Cut Flower Collection

Lovers of cut-flowers can depend on our careful selection in this collection of 25 Perennials for cut-flowers. We include Achillea, Aster, Delphinium, Pyrethrum, Shasty Daisy, Veronica and other good cut-flower varieties. All carefully labeled and at least 15 different varieties.

**No. 12. "CUT-FLOWER"** Perennial Collection, 25 plants, our selection of varieties, for **$4.00.**

## Rock Garden Collections

We use great care in assembling these collections and send only plants suitable for rock gardens. Our selection of varieties, each one properly labeled.

**No. 12A.** Rock Garden Collection. **1 each of 10 varieties for $2.50.**

**No. 12B.** Rock Garden Collection. **2 each of 12 varieties for $5.00.**

## Shady Border Collection

A valuable assortment of 25 hardy Perennials which thrive in partial to almost total shade We send Aquilegias, Funkias, Lythrum, Monarda, Polemonium, Violas and other good varieties to brighten a shady spot, 12 different varieties in every collection, each carefully labeled.

**No. 12C. "SHADY BORDER"** Perennial Collection **25** plants, our selection of varieties, for **$3.75.**

**All Collections on this page, except where noted, are f. o. b. Western Springs, Ill. We advise shipment by Express.**

## Vaughan's Collection of New and Rare Varieties

To popularize the newer and better varieties of Perennials not usually found in the average garden, we offer this choice assortment much below our regular catalog prices. Each collection contains twenty-five plants for the Perennial border (one of each variety) all carefully labeled. Lovers of fine Perennials will appreciate this opportunity of obtaining the newest and best varieties. We make a careful selection as we realize the collection builds business for us.

If these 25 plants were sold at our "single plant" catalogue prices, they would cost over $12.00.

**No. 12D. VAUGHAN'S COLLECTION** of "New and Rare Varieties," **25** choice plants, our selection of varieties, for **$7.50.**

## Evergreens for Rock Garden

**CANADIAN Juniper (Juniperus Canadensis).** Of low spreading form with glaucous green foliage.

**PFITZER Juniper (Juniperus Pfitzeriana).** Best of all evergreens. Of broad, spreading habit with rich green foliage.

**SAVIN Juniper (Juniperus Sabina).** Spreading, semi-erect branches with dark green foliage.

**COLORADO SPRUCE. (Picea Pungens).** One of our most popular evergreens.

**MUGHO PINE. (Pinus Montana Mughus).** Of dwarf, round compact growth; foliage bright green in winter and summer.

2 each of the above, 6 to 8 inches, 10 plants for **$3.75**
1 each of the above, 6 to 8 inches, 5 plants for **$2.00.**

## French Hybrid Lilacs

Three named varieties, our selection, 1 reddish-purple, 1 double blue and 1 double white—2-3 ft., (value $3.75) for **$2.25**; 3-4 ft. (value $4.50) for **$3.00.**

## Peonies

Peonies may be planted in the fall or spring. Orders should be sent at once so that we can forward when weather permits. Avoid planting too deeply, as this is often the cause of the shy blooming; 2 inches of soil over the crown (eyes) being sufficient.

### Pink Varieties

**Edulis Superba.** Bright mauve-pink. **75c.**
**Mons. Jules Elie.** Glistening lilac-pink. **$1.00.**
**President Taft.** Enormous flowers of hydrangea-pink. Strong growing. **$1.00.**

### White Varieties

**Avalanche.** White penciled carmine. **$1.00.**
**Festiva Maxima.** White dotted carmine. **75c.**
**Mad. de Verneville.** Rose-white. **75c.**

### Red Varieties

**Felix Crousse.** Dazzling ruby-red. **75c.**
**Karl Rosefield.** Rich velvety-crimson. **$1.00.**
**Louis Van Houtte.** Deep carmine-rose. **75c.**
**Tenuifolia Flora Plena. (Fern-leaf Peony).** Full double, brilliant crimson. Very early, **$2.50.**

### Un-named Sorts

**Double White.** Divided roots. Each, 50c.
**Double Pink.** Divided roots. Each, 50c.
**Double Red.** Divided roots. Each, **60c.**

### Special Offer

One each of the above 3 unnamed Peonies, postpaid, for **$1.00.**

## Bargain Peony Collections

1 each: Edulis Superba—bright pink, Felix Crousse—ruby red, Festiva Maxima—large white, Louis Van Houtte—carmine-rose, Mad. de Verneville—rose-white, and President Taft—hydrangea-pink (value $4.75) for only **$3.00.**

## Hedge Plants

**LIGUSTRUM Amurense (Amur Privet).** A splendid hedge plant. Extremely hardy. Dark green lustrous foliage. Can be sheared to any extent.

12 to 18 in. extra bushy **$1.00** per 10; **$8.00** per 100.
18 to 24 in. extra bushy **$1.50** per 10; **$12.00** per 100.

### Eight Popular Flowering Shrubs That Will Give You Bloom All Summer

1 **GOLDEN BELL. (Forsythia).** Bright yellow flowers in early spring, 3-4 feet.
1 **HYDRANGEA. (Paniculata Grandiflora).** Long white blooms in late summer, 2 year.
1 **HONEYSUCKLE. (Lonicera).** Dainty, fragrant flowers of white or pink, 3-4 feet.
1 **MOCK ORANGE. (Philadelphus).** Large white orange-scented flowers, 3-4 feet.
1 **SPIRAEA (Bumalda Froebeli).** Rose-pink flowers from June to October. 18-24 inch.
1 **BRIDAL WREATH. (Spiraea Van Houttei.)** One of the most beautiful of all shrubs. 3-4 feet.
1 **ROSA F. J. GROOTENDORST.** Double bright red flowers all summer and fall. 2 year.
1 **WEIGELIA. (DIERVILLA).** Bell-shaped flowers of red or pink in June or July. 2-3 feet.

One each of the above eight shrubs (value $4.70) for **$3.00.**

# Water Lilies

A WEALTH of charm abides in a water garden there being a peaceful satisfaction watching the everchanging surface of the water reflecting serenity and beauty and yet ever moving and alive with aquatic life. Water plays an important part in nature's landscape, giving a variety of interest and beauty. Water Lilies, the queen of aquatics, come from all parts of the world, Europe, Africa, Australia, America, Japan, China and the East Indies, each distinct species being easily grown in this country. Complete list of water lilies, oxygenating and bog plants with directions for pool making and culture are given in our circular, which will be mailed on request. **Refer to cover page 2 for collections.**

WATER LILY, GENERAL PERSHING

## Hardy Water Lilies

**ESCARBOUCH.** Bright crimson, carmine with orange center. Magnificent flowers four to six inches. Very free bloomer, vigorous of growth. Each $4.50.

**GLORIOSA.** A truly magnificent variety with fragrant flowers from six to seven inches across, of beautiful form, which float on the water. They are a deep carmine rose color, becoming deep red with age, double and perfect form. The plant is very free in flower, blooming continuously throughout the season. The fine qualities of this flower make it excellent for cut flowers, for it continues to open for about five days when floated in a bowl. The lovely blossoms of these lilies and the plant's small leaf spread make it very desirable for tub, pool or lake planting. Each $4.00.

**GONNERE.** A free flowering, fully double snow white lily averaging over 80 petals to a flower and being very double right to the center it gives a different appearance than most lilies. The plants have all the characteristics of their parents, the Wild European lily, compact and free flowering. Connoisseurs will appreciate this novelty and want to add it to their collection. Each $5.00.

**JAMES BRYDON.** One of the most desirable lilies. The large cup shaped flowers measure from five to six inches across and are a rich, rosy crimson, while on the reverse side of petals is a silvery sheen. Is very hardy and free flowering. Leaves dark green with an overcast of bronze. Each $3.00.

**LEVIATHAN.** Most distinct and attractive large flowering variety, 8 to 9 inches across, flowers being a deep reddish pink with green leaves flushed red below. Free flowering and vigorous grower. Each $3.50.

**MARLIACEA ALBIDA.** A pure white fragrant flower of large size with yellow stamens. The sepals are tinted pink. The plant is of free growth, blooms continuously the whole season. The leaves are large deep green above, the underside being deep red in the young state. One of the choicest water lilies. Each $1.50.

**NEPTUNE.** Free flowering variety with beautiful pink petals flushed with red at base. Garnet stamens give the flower a most attractive appearance. Of French origin. $5.00.

**ODORATA GIGANTEA.** Native lily of Southeastern States. Large pure white flowers four to seven inches across. Leaves are green with a margin of purplish red on the underside. Prolific bloomer. Each $1.00.

**ODORATA MINOR.** Miniature, fragrant white flowers, two to three inches across. One of the most attractive small lilies; unexcelled for planting in tubs or at edge of pools. Each $1.00.

**ODORATA ROSEA (Cape Cod Pink Pond Lily).** Beautiful, fragrant, rose pink flowers, deepening to intense pink toward the center. Stamens yellow. Leaves dark reddish green. Desirable and handsome. Each $1.50.

**PAUL HARIOT.** Magnificent light yellow shading to orange pink and then to copper red. Large flowers of great beauty and substance. Will thrive under extreme conditions and blooms freely. Foliage spotted brownish red. One of the most popular of the changeable types. Each $3.50.

**PYGMAEA HELVOLA.** Smallest species in cultivation. Miniature yellow flowers with yellow stamens from one to two inches across. Prolific bloomer and is excellent for tubs or edge of pools. Flowers exhale a tea fragrance. The dainty green leaves are spotted brown. Each $1.00.

**RENE GERARD.** Decidedly new and distinct lily with enormous blossoms 10 inches across with numerous petals wide at the base, curling at the edges and tapering to waxy points. Myriads of tiny crimson flecks on a white background produce an exquisite blend of deep old rose. This prolific blooming, truly unusual lily is a recent introduction from L'Etablissements Latour Marliac, Temple-sur-Lot, France. Each $6.00.

**ROBINSONI.** Beautiful floating flowers of unique color; yellow with an overlay of purplish red; general color being a dark orange red. Dark green leaves spotted brown. A most worthy and valuable addition to any collection. Each $2.00.

**SIOUX.** Large star shaped flowers of rich brassy yellow, shaded red as flowers grow older. Petals lanceolate; stamens deep yellow; bronzy green foliage spotted reddish brown. Each $3.00.

**SOLFATARE.** Somewhat like Paul Hariot but a softer shade. Opens rich cream color, yellow toward center and as the flower matures deepens to pink with an overcast of shimmering brass. Each $3.50.

**SUNRISE.** The name typifies this exceedingly beautiful fragrant yellow lily with long narrow petals standing at various angles, their curved sides and crinkled tips giving the appearance of a giant chrysanthemum. One of the largest lilies, the enormous flowers 9 inches across and earliest to bloom are a clear yellow, stamens golden lemon, buds olive brown with salmon flush, while the egg shaped leaves are deep green on top and red flecked below. Each $2.50.

**SUMPTUOSA.** Enormous, double, fragrant, rosy pink flowers, deepening toward the center and lightly spotted with a deeper shade of color; orange stamens make a pleasing contrast. It possesses the excellence of flowers and superior habit that determines the favorite. Each $3.50.

## Night Blooming Tender Lilies

Flowers open from 5 to 6 P.M., and remain open all night usually closing the middle of the following morning; sometimes remaining open all day if cloudy weather.

**DENTATA MAGNIFICA.** Creamy white flowers, eight to fourteen inches across, wide concave petals forming cup shaped flowers; stamens yellow with brown spots at base. The leaves are heavily dentate with many crumpled margins and when exposed to the sun they have an overcast of bronze. Each $2.50.

**DEVONIENSIS.** Bright rosy red flowers measuring eight to twelve inches, borne on stout stems, well above the water. The stamens are cinnabar red. Many flowers in all stages of development are visible at one time. Leaves are dark bronzy green and measure twelve to eighteen inches in diameter. A desirable acquisition to the list of lilies. Each $1.50.

**STURTEVANT.** A comparatively new variety of great beauty. The immense flowers are bright red and measure eight to ten inches across; stamens orange-brown. Leaves large, bronzy-green with dentate edge. One of the finest of recent introductions. Each $2.00.

## Nelumbiums or Lotus

We offer Lotus in dormant roots, potted plants and plants grown in boxes six by ten inches, with slatted ends, box and all to be sunk in the earth without root injury.

**CHINESE RED LOTUS (Pekinensis Rubrum Plenum).** Large magnificent, extremely double, bright rosy carmine flowers borne on sturdy stems well above the foliage. Free in blossom and growth. Most exquisitely magnificent of all Lotus. Each $3.50; boxed plants, each $5.00.

**LUTEUM. (American Lotus, Water Chinquapin).** A magnificent variety, yellow flowers, originating in the western and southern states. Each $2.00; boxed plants, each, $4.00.

**SPECIOSUM (Egyptian Lotus).** Very easily grown; produces a subtropical effect. Deep rose, creamy white at base of petals. Each $2.00; potted plants, each $4.00.

### Tub Water Plant Collection

1 Water Lily James Brydon
2 Marginal Plants such as Umbrella, Arrowhead, Pickerel.
3 Oxygenating Plants
4 Floating Plants

Value $4.50. Sent Express Collect for $3.00.

## Day Blooming Tender Nymphaeas

**AUGUST KOCH.** Fragrant flowers, eight inches across on stems rising from eight to ten inches above the water, blooms remaining open from four to six days. The sepals are purplish lilac, the petals pale wisteria violet and stamens yellow, shading to orange, then lavender. The leaves are green on upper surface. Excellent bloomer and of extremely easy cultivation. This variety was originated by Mr. August Koch, chief florist of Garfield Park, Chicago, Ill., and is considered the finest of its kind. Each $2.50.

**MRS. C. W. WARD.** Flowers deep rosy pink, almost red, of the Gracilis type, measuring eight to ten inches across. Stamens golden yellow, tipped with pink. This lily is more hardy than other tender nymphaeas, blooms freely and is very desirable. Each $2.00.

**MRS. GEO. H. PRING.** Immense, pure white flowers, ten to thirteen inches in diameter, extremely fragrant and most prolific in bloom throughout the season. Stamens golden yellow and tipped white. Young leaves are blotched brown while the older ones are plain green. The plant produces equally well in scant quarters, the flowers and foliage alone being affected. It is a pleasing contrast to the other lilies, far surpassing any other white tender lily for size, substance and beauty. Each $3.00.

**PANAMA PACIFIC.** Wine red upon first opening, changing when fully open to reddish-royal purple, yellow stamens. A new distinct color, free flowering, practically everblooming. Leaves attractively spotted reddish-brown, buds bronzy-green. Each $2.50.

**PULCHERRIMA.** Flowers sometimes measure twelve inches across and are a beautiful light blue; stamens deep yellow, tipped with blue; sepals striped and dotted black on outside. Buds long and pointed. Each $2.50.

**STELLA GURNEY.** Fragrant, light rose pink flowers, full petaled above average size, on good stems, with light green leaves. Strong and free blooming. Petals are pointed, giving star-like effect. Each $2.00.

## Water Lily Boxes

Pine boxes ready to put together. Excellent in which to plant water lilies. These can be taken out of pool in the fall and put in your basement for winter without disturbing the lilies. They make a box 12 inches deep, 18 x 18 inches wide and will last several years having slots cut for handles and reinforced corners. Each $1.25; 3 for $3.50.

# Every Garden Should Grow These

Mr. Leonard H. Vaughan, President:

More home vegetable gardens were made in the United States last spring than in several years. And those who made them, as a rule, had fresh vegetables to enjoy during the summer and quantities to store when fall came.

If every family with land enough for a vegetable garden grew one, the hardships of a financial depression would surely be less. Any one who loves the soil and knows its bounty must question, in times like these, whether the development of an industrial civilization on the lines we have followed in the last decade is wise, in view of the loss of independence and self reliance by the individual.

There is no reason for any able-bodied man to lack food if he has the use of land enough for a garden. There is no lack of land, and yet millions have no opportunity to use it to feed their families while at the same time they are unable to earn wages with which to buy food.

How much less suffering to our people and greater power to our country if every family maintained contact with the soil, and possessed the skill and equipment with which to produce a goodly share of its own food in times of stress.

There is certainly no need in this day for men herding together in congested sections when, at less expense, homes can be built in pleasant and spacious surroundings, with a garden for every home. And when a family, which lives in such a home neglects to have a garden, by so much are their advantages neglected and the strength of our country weakened.

It is quite beyond dispute that the farther our people get away from the garden the more suffering will be caused by every readjustment, from whatever cause, of our complex industrial and financial structure.

As a measure of economy for a family with members otherwise unemployed, the home vegetable garden is beyond comparison. The money outlay required is insignificant. Seeds for the average garden cost one to two dollars. When used on land which would otherwise be idle, with labor which has no other market, they produce a return which it would surely be difficult to equal by any other home activity.

And whatever the social or financial standing of any home, it will be happier and its owners healthier, if it include, as one of its departments, a vegetable garden, where the green foods so vital to good health can be grown at their best and served when freshest, tenderest and most enticing in flavor. And the children of such a home will enter life with a background and training which no school can supply, as we are often reminded by city school teachers, whose classes think most of the world is paved with concrete, that carrots are made by the groceryman, and milk is a factory product.

Let's get back to the soil this spring!

SCOTT REDFERN,
Manager, Vegetable Seed Dept.

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## Asparagus Chicory

This is a favorite in Italy and has been grown successfully in our trials. A member of the chicory family, it is cultivated for its fresh green shoots which are boiled in salt water and served hot, or in cold salad. They are tender and suggest the flavor of asparagus. New sprouts continually spring from the base, to be harvested and enjoyed. Pkt., 25c, ½ oz., 50c; oz., 75c.

ASPARAGUS CHICORY

STRINGLESS WHITE WAX

## Bean, New Stringless White Wax

This is a perfectly stringless variety with a long, straight pod, and a white seed which may be eaten dry if desired. It is early, of excellent flavor, produces heavily and is strongly recommended for home gardens. Pkt., 15c; ½ lb., 35c; lb., 60c; 2 lbs., $1.00.

BURGER'S STRINGLESS GREEN POD

## Burger's Stringless Green Pod

Small, white bean; good for baking; long bearing vines, pick right up to frost. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

## Broccoli, Italian Green Sprouting

A plant of the cauliflower family which, after the first head has been harvested produces branching sprouts on which are small loose heads, two inches in diameter, which are cooked like cauliflower. The flavor is delicate and delicious. Pkt., 25c; oz., 65c; ¼ lb., $2.00.

BROCCOLI, ITALIAN GREEN SPROUTING

## Cabbages, Yellows Disease Resistant

We list on page 20, proved varieties of disease resistant cabbages, which have become so important to sections in which the cabbage yellows disease is prevalent. No claim is made of freedom or immunity from other diseases, such as clubfoot, stem rot or black rot. We offer only varieties which have been tested in the diseased cabbage fields of Wisconsin and found to be 80% to 90% resistant.

## Cabbage, Jersey Queen

As near a true Jersey Wakefield as is possible to select in type and earliness. Exceptionally resistant to yellows. If you are troubled losing your cabbage try yellows resistant varieties. It may make it possible for you to again grow cabbage successfully. Pkt., 25c; ½ oz., 60c; oz., $1.00; ¼ lb., $3.00.

CABBAGE, JERSEY QUEEN

## Cabbage, Globe

The yellow resistant Glory of Enkhousen, being of the same type and season as this variety. The best mid-season resistant cabbage grown. Pkt., 20c; oz., 85c; ¼ lb., $2.50; lb., $8.00.

CABBAGE, GLOBE

## Health Value of Vegetables

Discovery through scientific research of the part diet plays in maintaining good health, and of the importance of fresh vegetable foods, has led to a rapid increase in the use of vegetables in the United States. Recognizing the great importance of the mineral and vitamin content of the various vegetables, we have given space in this calalog to comprehensive tables showing these factors for each of the principal vegetable families. By reference to these tables a garden may be planned which will insure a wholesome family diet throughout the year.

## Celery, Golden Detroit

The plants are heavy, compact and full hearted. Stems are broad, very thick, rounded at the edges and the edible portion is about 7 inches long. The leaves are a clean bright green, the stems blanch easily and are very free from strings. The hearts are full and crisp and the heart leaves blanch evenly to a deep golden yellow. This is a pure line selection of the Dwarf Golden Self Blanching type which accentuates the good points of that variety and eliminates the faults. Under California conditions, plants grow 24 to 26 inches overall and under Florida conditions the plants average 22 to 23 inches tall. The flavor is excellent and the high quality of the variety throughout will make "Golden Detroit" a great favorite with market growers, shippers, home gardners and consumers. Pkt., 25c; ½ oz., 85c; oz., $1.50.

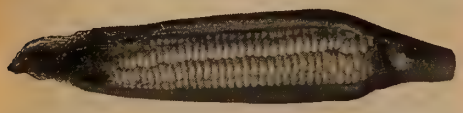
CELERY, GOLDEN DETROIT

## Celery Cabbage or Chinese Pe Tsai

The VAUGHAN Strain. This exceptionally fine vegetable is rapidly growing in public favor. Its growth resembles the Cos lettuce, but the outer leaves have the general texture of ordinary cabbage. When the outside leaves are stripped away the cabbage presents a well nigh irresistible appearance. Our strain of this seed is grown in China by a specialist whose family has raised and selected this particular type for many years. The heads blanch without tying. July is the proper planting time. Pkt., 10c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

CELERY CABBAGE OR CHINESE PE TSAI

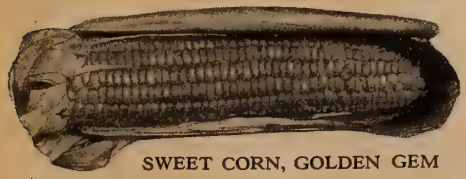
# Newer and Improved Vegetables



SWEET CORN, VAUGHAN'S EARLIEST

## Sweet Corn, Vaughan's Earliest

The Ohio Experiment Station at Wooster reported this the earliest white sweet corn and recommended it to market growers. It is larger than other early whites and of superior quality. The ear is high enough on the stalk to make picking easy and five dozen will make a bag on the market. Good for both home and market gardener. Pkt., 15c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $3.00.



SWEET CORN, GOLDEN GEM

## Sweet Corn, Golden Gem

This is an entirely new variety developed by the North Dakota Agricultural College, and is the earliest yellow sweet corn on the market. As compared with Sunshine or 60-Day Yellow it is a week to ten days earlier, producing practically the same size ear but of an eight and ten-row type. Its productive and early qualities make it an outstanding variety of the yellow sweet corn class. Is an excellent addition to the garden. Pkt., 15c; ½ lb., 35c; lb., 60c; 2 lbs., $1.00.

CUCUMBER, FOJIN

## Cucumber, Fojin

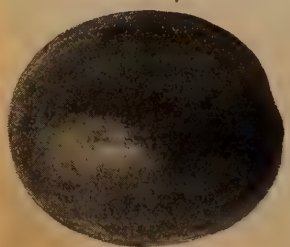
A new variety of superlative quality and the earliest cucumber of good size, maturing in 45 days. The Chinese expert, Dr. Yamei Kin sent us seeds of famous strains which we crossed with white spine varieties. Of the many excellent offspring we have selected the best and christened it Fojin or Quality. It is of excellent shape, 8 or 9 inches long, 1¼ to 1½ inches in diameter, medium dark green, small seed cavity, and with the flavor for which the Chinese cucumbers are famous. Pkt., 25c; oz., 65c; ¼ lb., $2.00.

## Melon, Honey Rock (or Sugar Rock)

A wonderfully sweet melon with thick orange flesh and a distinctive flavor, suggesting the Honey Dew taste. It produces heavily and matures in 85 days. Oval fruits of medium size, not ribbed. An excellent home garden variety. Pkt., 10c; oz., 35c; ¼ lb., 75c; lb., $2.25.

MELON, HONEY ROCK

## Watermelon, Stone Mountain



STONE MOUNTAIN

A new round melon having red flesh and free from stringiness. It matures a few days later than Kleckley's Sweet and may be grown in the north. Very productive and excellent for home use. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

## Onion, Golden Globe

An exceptionally fine yellow globe onion of superior weight. When grown as a dry onion its keeping quality is much superior to others making it very desirable for the home and market gardener. Has a very deep globe, carrying its greatest diameter well up from the root. Has 3 skins for protection and from seed matures, same time as Southport Globe. From sets it matures much earlier. Pkt., 25c; oz., 50c; ¼ lb., $1.50; lb., $5.00. Sets, qt., 35c; 2 qts., 60c.

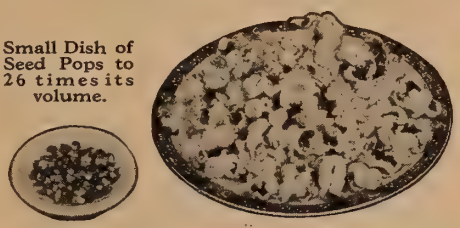
GOLDEN GLOBE

PEPPER, CALIFORNIA WONDER

## Pepper, California Wonder

A mild, sweet, midseason variety, very large, measuring 4½ inches in length by 4 inches in diameter. It resembles Chinese Giant in form, but has an extremely thick flesh which that variety does not; crimson fruit. One of the heaviest peppers grown, not as prolific as some but much more desirable. Pkt., 20c; ½ oz., 40c; oz., 70c; ¼ lb., $2.25.

Small Dish of Seed Pops to 26 times its volume.



POPCORN, KANSAS SUNBURST

## Popcorn, Kansas Sunburst

This popcorn gives the largest amount of popcorn of any yet developed. It is a yellow kernel, 16-row ear, 6 inches long. Handsome to look at, wonderful popping quality, making 26 times its own volume. Developed by the Kansas State College and Dept. of Agriculture over a seven-year period of selection for quality and expansion of popped kernel. Stalks 6 to 6½ feet tall. Matures in 100 to 120 days. 2 to 4 ears to stalk. Seed, pkt., 15c; ½ lb., 35c; 1 lb., 50c; 5 lbs., $2.00. For popping, lb., 25c; 5 lbs., $1.00; 25 lb. lots, 15c per lb., not prepaid.

SPINACH, VAUGHAN'S SPECIAL

## Spinach, Vaughan's Special

An early, smooth leaved spinach being more upright in growth than other spinaches and nearly a long standing variety. Easily cleaned and very tender. Pkt., 10c; oz., 20c; ¼ lb., 30c; lb., 85c.

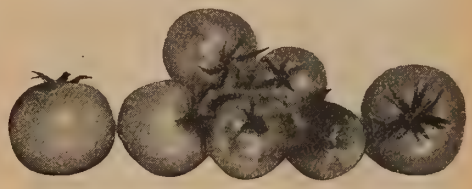
## Radish, Giant Butter

This is by far the largest of the early turnip radishes exceeding in size even the Crimson Giant. By careful selection, Giant Butter has been bred true to type so that there is almost no deviation from its fine, round shape. In color it is vivid scarlet. It is further characterized by ability to stand for an unusually long period without becoming pithy and is highly recommended for home gardens. flesh tender, crisp. Can be planted successfully throughout the summer. Pkt., 10c; oz., 20c; ¼ lb., 45c, lb., $1.25.

RADISH, GIANT BUTTER

## Tomato, Vaughan's American Beauty

Our friend, the tomato connoisseur, W. E. Vail, of Yorktown Heights, N. Y., bred this prolific Globe variety. It is our highest yielding main crop purple. It is firm, smooth, of uniform size, purple cast, subacid, with small seed cavity. Pkt., 25c; ½ oz., 40c; oz., 75c; ¼ lb., $2.50.



VAUGHAN'S AMERICAN BEAUTY

TOMATO, OXHEART

## Tomato, Oxheart

Popular because of its attractively different shape, large size, and excellent table qualities. Not a heavy yielder but large size, often weighing 3 lbs. or more. Skin, pink, almost seedless, firm, sweet flesh frequently two in. thick without a seed cavity, slices well. Pkt., Pkt., 20c; ½ oz., 50c; oz., 85c; ¼ lb., $3.00.

## Tomato, Wilt Resistant

In sections where fungus and bacterial diseases are prevalent in this crop, resistant varieties should be chosen to insure a normal yield.

## Break O' Day

Developed by F. J. Pritchard, of Washington, D.C. A new wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, meaty, red and globular, very similar to Marglobe but usually larger, used whole for salads or stuffed. Pkt., 20c; ½oz. 40c; oz., 75c; ¼ lb., $2.25.

BREAK O'DAY

FIG. 1

# A Garden Without Work

PAPER mulch has made it possible to have a labor-saving garden. It has other merits, but if they were absent, and only the fact that it abolishes weeds and does away with cultivation were left to justify the cost of paper mulch, for most home gardeners it would be sufficient.

After the asphalted paper has been laid and seeds planted between the strips, or in small holes made through them, there is nothing for the gardener to do except to thin out the seedlings when they appear, and pull the first tiny weeds that try to grow in the narrow row of soil exposed between strips, or in the small surface exposed to the air when a crop is grown through the paper.

FIG. 2

One more task there may be, but it is an easy one and need only be performed in very dry weather. Paper mulch keeps water in the soil, but does not add to the supply. It also raises the temperature of the soil, which speeds up the maturity of plants and increases their size, if they are plants that like heat. In very dry weather water should be supplied to the paper mulch garden, if possible. Let the hose run without a sprinkler and soak the soil. You will find the paper mulch garden needs much less water, even in a dry spell, than a garden made without it.

Intensive planting is possible under paper and the method recommended for the small home garden is illustrated in Fig. 4. Use the 18-inch width of paper, single or double weight. Plan your garden so that hill crops (those planted at considerable intervals in the row) are sown or set out in holes made through the paper in the center of each strip. Drill crops, (those planted in a continuous row, to be thinned out later) are sown in two-inch strips of soil left between the rows of paper.

FIG. 3

The illustrations, Figures 1, 2, 3 and 4, clearly demonstrate this method and also show how the paper is held down. Except in localities where the wind does not blow, it is necessary to use some method of holding the paper securely to the ground. The easiest and most inexpensive we have found, and at the same time the most effective, is to run a strand of No. 18 galvanized wire along each edge of each strip, and hold it down by No. 9 galvanized wire stakes 18 inches long, with the top 6 inches bent at right angle. The long end is driven into the soil alongside the paper, (Fig. 2) and the short end projects over the edge of the paper holding down the No. 18 wire strand. No wind can disturb paper mulch so fastened. The air is excluded from beneath the paper, and this helps check evaporation. The galvanized wire stakes can be used for years.

A roll of paper 18 inches wide is 900 feet long, if single weight, and 450 feet, if double weight. Plan the dimensions of your garden so that you know how long each row should be. It is best to lay the paper so that it covers a rectangular block, with as little exposed soil as possible in the area. The soil should be spaded, raked smooth, and fertilizer applied.

To lay the paper, anchor one end of the roll at one corner of the area to be covered. Roll the paper out the desired length and cut it off. Fasten it down with No. 18 wire and wire stakes and then before laying the next strip, sow the seed of the first row along the inside edge of the strip which has been laid. (Fig. 1.) Make a shallow drill with a hoe using the edge of the paper as a guide. Sow the seeds and cover them. Then lay the second strip, leaving a strip of soil not more than two inches wide exposed between the two.

Repeat this process until the entire garden has been covered, and all the seeds to be sown between strips have been put into the ground. As a rule the drill crops are sown first, and the hill crops later, since they consist in most cases of plants started under glass or of vine-crops which are sown late. In setting out plants or sowing seeds through the paper strip, determine the location of each hole by careful measurement. (Fig. 3.) Place them in the center of the strip, and space at equal intervals down the row.

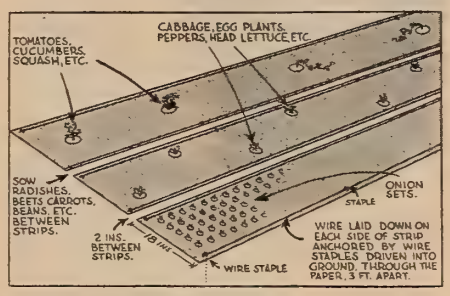



FIG. 4

There are several methods of making holes in the paper through which to set plants or sow seed. One which works very well is to make two cuts, about six inches long, crossing at right angles. Fold back the corners thus formed, leaving a square hole. Do not cut off the turned-back corners, but allow them to remain to shade the soil.

To lay a roll of paper in this manner requires but an hour or two. It takes little if any more time than to mark the rows and sow the seed of an ordinary garden. Thinning out the row and pulling the first weeds in the row is a brief and easy task, taking less time than in the ordinary garden because there are much fewer weeds. And once these tasks are done, there is no more work to do. The crops grow with remarkable speed; yields are heavily increased, and the garden is always well cultivated, without labor on your part. When midsummer arrives and the average garden begins to look neglected, because the temperature discourages the gardener, the possessor of a paper mulch garden has no apologies to make. His rows are trim and weedless, while he rests.

## Gator Hide Mulch Paper

**Type A, (Light Weight)**

300 lineal yards, 18 inches wide, 30 lbs., $3.00.
300 lineal yards, 36 inches wide, 60 lbs., $6.00.

**Type B, (Heavy Weight)**

150 lineal yards 18 inches wide, 30 lbs., $3.00.
150 lineal yards, 36 inches wide, 60 lbs., $6.00.

**Trial Lengths, of Type B**

90 lineal feet, 9 inches wide, 75c.
45 lineal feet, 18 inches wide, 65c.
Add 20c for postage.

**Galvanized Wire**

Coil of 600 feet, No. 18, weight 4 lbs., 50c.
Galvanized wire stakes made of No. 9 wire, 18 in., long, per 100, $1.00. Wt., per 100, 2 lbs.

**Above Prices are not Prepaid**

FIG. 5

# Vaughan's Selected Strains.

VEGETABLE seeds of selected strains are grown by Vaughan's Seed Store on our own farms. Illustrations on this page show some of the seed crops and operations. To produce select strains requires greatly increased expense.

Our select strain of Golden Bantam sweet corn, (Fig. 7) that favorite of the home gardener, produces stalks so much taller and ears so much larger than ordinary seed of this variety, that one might suppose ours a distinct variety. (Pkt. 20c; ½ lb., 35c; lb., 65c; 2 lbs., $1.15.)

How is a select strain produced? By choosing, as parents of the seed you buy, specimens which reach a superior type. In the case of radish seeds, for example, this requires that radishes from stock seeds shall be first grown and harvested. The radishes so produced are then carefully sorted and all which fail to attain the standard are discarded. The selected ones are planted, and they produce seeds. (Fig. 5.) As an example of transplanted radish seed we recommend our Early Scarlet Globe (Pkt., 15c; oz., 25c; ¼ lb., 45c; lb., $1.25.)

FIG. 6

Another kind of selection is rapidly growing in importance, the development of disease resistant strains.

It is chiefly among cabbages and tomatoes that disease resistant strains have been bred. On Page 20 of this catalog we list seven varieties of yellow resistant cabbage. We illustrate (Fig. 6) a typical plant of our wilt resistant tomato Break-O-Day, which is fully described on Page 15. (Pkt. 20c; ½ oz., 40c; oz., 75c; ¼ lb., $2.25.)

FIG. 7

# Artichokes

THE Artichoke is grown for its edible blossoms. It is a perennial but will not stand freezing. It requires renewing every two or three years. The Jerusalem Artichoke, so called, belongs to a different family.

**GREEN GLOBE.** Perennial, large-flowering heads of exquisite and unique flavor. A prized delicacy of rapidly growing popularity. Matures second year; not hardy in the North. Pkt., 10c; oz. 65c.

**JERUSALEM ARTICHOKE ROOTS.** Best hog food known. Easily grown. Three bushels plant an acre, enough to keep 20 to 30 hogs from Oct. to April. Cut and plant like potatoes. In Europe the tubers are baked, like potatoes, and esteemed as food because of their distinctive flavor. It grows in a wild form in the United States. Lb., 25c; 3 lbs., 65c; 10 lbs., $1.50. Write for quantity prices.

# Asparagus

ASPARAGUS from the home garden is one of the most delicious and earliest of crops. It may be grown in any deep, rich soil, either from seed or roots.

**SEED PLANTING**—Asparagus may be raised from seed and a crop obtained in three years. In early Spring sow the seed, after soaking it twenty-four hours in warm water, in drills about one foot apart and one inch deep. The following Spring, select the best of the roots and place in the permanent bed.

**ROOT PLANTING**—A year may be saved by buying the plants (one year old are greatly to be preferred) and setting them at least two feet apart in the row, and the rows not closer than four feet; see that the roots are well and evenly spread out in planting and that they are not exposed to the air longer than is absolutely necessary, as they deteriorate rapidly.

**WHITE ASPARAGUS.** White Asparagus may be grown from the same variety as green. It is merely a method of growing. The roots are set deeper and the stalks are cut underneath the ground before exposure to the light has turned them green.

**WASHINGTON RUST RESISTANT STRAIN.** Developed by the experts of the United States Department of Agriculture which originated this strain. Rustproof plants are preferred by commercial growers. Since the differences between varieties of asparagus are not great, given the same soil and cultivation, freedom from disease is of dominant importance. The most satisfactory strain is MARY WASHINGTON.

**MARY WASHINGTON** stock is so far the most satisfactory of the two strains. It is the result of a single cross. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**BONVALLET'S GIANT.** Equally good, grown white or green. Bonvallet's Giant is favored on account of its extreme vigor and rust resistance. Usually it produces a crop a year in advance of other sorts. Our strain has been improved each year by careful re-selection. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

## Asparagus Roots

| | 1-Year Old | | | 2-Years Old | | |
|---|---|---|---|---|---|---|
| | Doz. | 100 | 1000 | Doz. | 100 | 1000 |
| Bonvallet's Giant | $0.65 | $2.75 | $16.00 | $0.65 | $2.25 | $16.00 |
| Mary Washington | $0.65 | $2.75 | $16.00 | $0.75 | $3.00 | $18.00 |

If by mail add postage as follows. . Doz. 8c; 100, 50c.

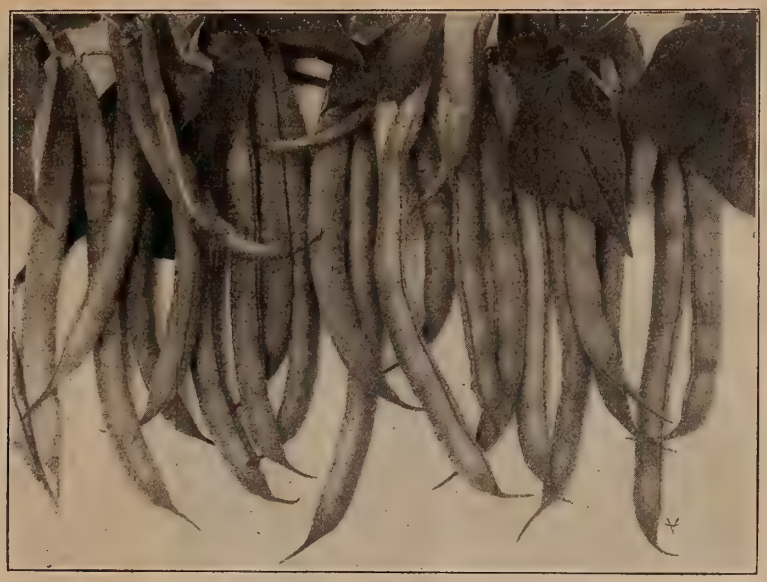
### Health Value of Fresh Picked Asparagus

**Calories per lb. 100. Vitamines, A, B, C, D.**

**Proteins 1.8% Fats .2% Carbohydrates .33%**

**Minerals:**

| | | | |
|---|---|---|---|
| Calcium | .025% | Chlorine | .039% |
| Magnesium | .011% | Sulphur | .041% |
| Potassium | .196% | Iron | .001% |
| Sodium | .007% | | |



VAUGHAN'S BOUNTIFUL STRINGLESS BEANS

# Green Pod Bush Beans

BEANS are very tender. The seeds must be sown where they are to grow when frost has ended, and the ground is warm. The bush varieties are much earlier than the pole beans and are usually the main crop in Northern gardens, and in home gardens where space is limited. Sow in rows about fifteen inches apart, and thin the plants to about four inches apart in the row. Keep the surface soil soft and the rows free from weeds. Do not cultivate when the plants are in bloom, as it prevents the flowers from setting pods, and cultivating when the vines are wet with dew spreads the anthracnose, the chief disease of beans.

Whether one grows Wax or Green Beans is a matter of taste. Tests have proved, as far as can be, that there is no difference in flavor, nor in tenderness; and they are both grown alike. The round-podded varieties are considered to be more brittle, while the flat-podded types are better yielders. Bountiful is a flat-podded variety of remarkable yielding qualities, while Stringless Green Pod and Giant Stringless Green Pod are examples of the round-podded type.

**For the Home Garden**—Bountiful, Stringless Green Pod, Full Measure for all of which we can supply seed grown on our own farms in Michigan.

## Stringless

**BOUNTIFUL STRINGLESS.** Finest of flat podded varieties, stringless, tender and of excellent flavor. It is among the earliest, a heavy yielder, producing straight, flat pods about 7 inches long of a pale green. Pkt. 10c; ½ lb. 25c; lb., 45; 2 lbs., 80c; 10 lbs., $2.25.

**STRINGLESS GREEN POD.** The leading round pod variety. It is early, and very prolific, the vines bearing long, round, straight, thick, meaty pods, free from strings or fiber; rich deep green color, very attractive and of excellent quality. For succession, plant every two weeks. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.25.

**FULL MEASURE.** A main crop variety, Stringless Round Pod which on account of quality and productiveness is growing in popularity each year. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 85c; 10 lbs., $2.25.

**GIANT STRINGLESS GREEN POD.** An improved type of "Improved Early Valentine", nearly as early. The pods have all the excellent qualities of the original with much greater size and greatly improved appearance. Fine in succession to Stringless Green Pod. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.00.

## String

**LONGFELLOW (ROUND POD).** Handsome, nearly stringless, beautiful green pods, 7 to 8 inches long; straight and round; very prolific.
Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.00.

**BLACK VALENTINE.** It is not as early as "Improved Red Valentine," the original strain from which this was developed, but it is suited to both early and late planting; its hardiness overcomes light frost. Pods are a third longer than Red Valentine, and grow in clusters, perfectly straight and round. Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., $2.00.

**IMPROVED EARLY RED VALENTINE.** Very hardy and early, germinates in cold ground where other sorts would not. Vines are about 15 inches high, yield well; pods are round and fleshy and eaten when young are of good quality.
Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., $2.00.

**SUTTON'S MASTERPIECE.** The best greenhouse forcing bean. The pods are flat but large and thin. Early and a heavy yielder. Pkt., 15c; lb., 50c; 2 lbs., 90c; 10 lbs., $2.50.

## Shell

**DWARF HORTICULTURAL.** Late, heavy yielding. Flat green pods spotted with red. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.25.

**ENGLISH BROAD WINDSOR.** An English Dwarf Bean, eaten shelled, best of class. Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., $2.50.

**WHITE KIDNEY.** Shell beans. Lb., 35c; 2 lbs., 60c; 10 lbs., $1.75.

**RED KIDNEY.** Lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**WHITE MARROW.** Good shell bean. Lb., 35c; 2 lbs., 60c; 10 lbs., $1.75.

## Field

**GREAT NORTHERN.** A little larger than the Navy Bean, it is hardier and under ordinary conditions a much heavier yielder. For cooking many give it preference, saying it cooks in a shorter time, is more tender and more digestible. Pkt., 10c; lb., 30c; 2 lbs., 55c; 10 lbs., $2.00.

**IMPROVED NAVY.** Fine field sort. Lb., 30c; 2 lbs., 50c; 10 lbs., $1.25.

**"ROBUST."** Robust is a selection of the White Navy Bean introduced by the Michigan Agricultural College. In the College trials Robust has always outyielded other White Beans. It is especially adapted to the heavier soils. Lb., 30c; 2 lbs., 50c; 10 lbs., $1.50.

### Health Value of Fresh Picked Beans

**Calories per lb., 184. Vitamines A, B, C, D.**

**Proteins 2.3% Fats .3% Carbohydrates 7.4%**

**Minerals**

| | | | |
|---|---|---|---|
| Calcium | .046% | Chlorine | .024% |
| Magnesium | .025% | Sulphur | .030% |
| Potassium | .247% | Iron | .0011% |
| Sodium | .019% | | |

# Wax Pod Bush Beans

**For the Home Garden**—We recommend Wardwell's Kidney Wax, New Stringless and Round Pod Kidney Wax. The home gardener will find his bean crop one of the most productive in food values. If the plants are kept picked clean they will bear a long time and a second crop will come in late summer continuing through the fall. If space is limited, however, it is better to plant for a succession crop, as the first crop is much the heaviest.

**VAUGHAN'S MONSTER STRINGLESS WAX.** It is so stringless and tender (without any linen in the pod) that it can be used on the table up to the time the bean is almost ripe. It is a light yellow, and in size it is the largest of all Bush Beans; about half an inch thick and 5 to 8 inches in length. It is early and matures its beans evenly. Pkt., 15c; ½ lb., 35c; lb., 60c. 2 lbs., $1.00.

WARDWELL'S KIDNEY WAX

**UNRIVALED WAX.** A robust grower, ready in 65 days, slightly flattened pods, high quality. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 75c; 10 lbs., $2.25.

## String

**DAVIS KIDNEY WAX.** Vines vigorous and prolific, waxy white pods 7 inches long; the finest appearing of all early wax beans. They should be used while young, when free from strings. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**CURRIE'S GOLDEN WAX.** Early, hardy, nearly rust-proof. Long, golden yellow pods, crisp and tender. The seed is black. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**HODSON WAX.** The greatest yielder of garden varieties. Season medium early, vines bear a mass of long, straight pods, resembling the Davis Wax. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**Two Pounds Prepaid**

Catalog prices of peas, beans and sweet corn include prepayment on lots up to 2 pounds. For postage charges on larger lots, see page 112.

## POLE BEANS
### They Yield Heavily

POLE varieties are less hardy than the bush varieties, and must not be planted until the weather is settled and the ground warm. Set the poles about three to four feet apart, and in each hill plant six to eight beans, thinning when well started to the four strongest.

**KENTUCKY WONDER OR OLD HOMESTEAD.** Green pod. The most widely planted pole variety. The pods are fleshy, saddle-backed, green, 7 to 10 inches long and stringless when young. Kept picked, they bear throughout the season. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**KENTUCKY WONDER WAX.** The best pole wax bean for Northern planting. It is similar in habit to "Kentucky Wonder Green Pod," and as early. Pods are golden yellow, and so fleshy that often the thickness surpasses the width; make delicious eating. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

**EARLY GOLDEN CLUSTER WAX.** Long, stringless; fine quality; pods in clusters; pure white seeds. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

**BURGER'S STRINGLESS GREEN POD.** See Novelty Pages 14 and 15. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

**WHITE CREASEBACK.** Early; long, round, green, stringless tender. pods; white beans. Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., $2.50.

**CUT SHORT OR CORN HILL.** Much used in the South for planting among the corn. Yields well without poles. Short pods, flat to oval in shape; good quality. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**LAZY WIFE.** Good shell beans; long, thick, stringless pods. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.00.

**HORTICULTURAL CRANBERRY.** For cool climate; early; flat green pods, spotted seeds; good snap or shell. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**YARD LONG.** Or French Asparagus Bean. A long curious bean something like a cow pea, with edible pods. Pkt., 15c; lb., 70c.

**SCARLET RUNNER.** Ornamental, bright red flowers. Good snap bean. Pkt., 10c; lb., 50c; 2 lbs., 90c; 10 lbs., $3.25.

KENTUCKY WONDER

## Stringless

**STRINGLESS WHITE WAX.** See Novelty Pages 14 and 15. Pkt., 15c; ½ lb., 35c; lb., 60c; 2 lbs., $1.00.

**WARDWELL'S KIDNEY WAX.** In midwest soil this is at its best. The pods are 7 inches long, flat, brittle, stringless, straight, finely shaped, beautiful yellow, distinct and attractive. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**SURE CROP WAX.** An extra early, perfectly stringless flat variety with black seed. The pods are large and of a golden yellow color, which they assume when still very small. Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 75c; 10 lbs., $2.25.

**ROUND POD KIDNEY WAX.** Early, of vigorous growth, heavy yielding. Pods are long, round and entirely stringless; fine flavor. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**NEW KIDNEY WAX.** A flat, long-podded, stringless variety and of highest table quality. In addition a robust grower and high yielder. Pods 6 to 7 inches long, very thick and meaty. Vines 18 to 20 inches in height. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**PENCIL POD BLACK WAX.** Bushy vines, very prolific, 15 inches high, bear round, thick, stringless, rich yellow pods, 6 to 7 inches long, of excellent quality, containing black seed. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.00.

**IMPROVED GOLDEN WAX.** A medium early bearing heavy crop on vines of vigorous bushy growth, a good rust-resister. The pods are golden yellow, fleshy and solid, brittle, waxy texture, excellent for home and market garden. They have an exquisitely rich butter flavor peculiar to this variety. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**WEBBER WAX.** Same season as Wardwell's Wax but hardier and more prolific. The pod is long, bright yellow, yellow seed. Pkt., 10c; lb., 45c; 2 lbs., 75c; 10 lbs., $2.25.

# Delicious Lima Beans

LIMAS should be planted a little later than the other running beans, in the most favorable location possible, as they are very late in maturing. Always plant with the eye down. They may be sown in hills, or in rows, and allowed to run on chicken wire or strings and thinned to eight or ten inches apart. The Bush Lima is more easily grown than the tall, and is earlier and more economical of space. Many, however, consider the Tall Lima the best flavored of all beans.

FORDHOOK BUSH

**BURPEE'S BUSH.** Bush 15 to 20 inches high, 24 to 30 inches diameter, large white seeds; thick stems furnish fine support; very productive and splendid quality. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**HENDERSON'S BUSH.** Crop reliable, very productive, compact form, free from mildew. One of the first Lima beans to mature. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

## Bush

**FORDHOOK BUSH.** The highest quality Bush variety, it grows erect, and its large pods contain 4 to 5 large, thick, beautiful green beans. In contrast with older varieties, which were dry and mealy, Fordhook is tender, sweet and juicy. Pkt 10c; ½ lb., 30c; lb., 50c; 2 lbs., 90c; 10 lbs., $3.00.

**BURPEE'S IMPROVED BUSH.** This has larger pods and beans than the original. The vines are heavier and produce larger pods than "New Wonder"—and they mature a week earlier. Vaughan's strain of this excellent sort gives the greatest satisfaction. Pkt., 10c; lb., 50c; 2 lbs., 90c; 10 lbs., $2.75.

**NEW WONDER BUSH.** A standard of bush lima quality, and widely planted. Plants are large, prolific, compact and long bearing, maturing in mid-season; the pods are uniform, slightly curved and usually contain three seeds.
Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

## Pole

**CARPINTERIA POLE LIMA.** While the seed retains its distinctively green color, it is as prolific as any white lima; the vines are vigorous, bearing quantities of pods, each usually containing four beans. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

**EARLY LEVIATHAN.** Exceptionally early, it equals the main crop varieties for large pods; clusters of 5 to 8 grow together. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 85c; 10 lbs., $3.00.

**SIEBERT'S EARLY LIMA.** Hardy, early and an enormous producer, a grand variety for Northern climates. Pods are dark green, medium long, well filled with 3 or 4 large beans. Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., $2.75.

**KING OF THE GARDEN.** A climber that blooms and produces to end of season. Uniform pods 5 to 8 inches long, filled with beautiful beans of superior quality. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

**LARGE WHITE SEEDED.** Very attractive. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.75.

# Beets of First Quality

CROSBY'S EGYPTIAN

BEETS should be sown in drills in the garden as soon as the ground can be worked. Each "seed" is really a hard-shelled fruit cluster containing two or three small seeds. A moist seed bed is needed and the ground should be firmed well over the seed. Thinning out will be necessary, and the young beets and tops cooked together make one of the best dishes of the season. Thin to 5 inches apart for best results. The turnip varieties are earliest and most popular. The long or blood beets sown in May are harvested in the autumn for winter use. Early varieties sown in midsummer may be harvested in autumn and stored for winter. The home garden is not likely to be attacked by either insects or diseases which will injure beets. Swiss chard is a variety of beet grown for its leaves. See Page 36.

**Home Garden Varieties**—Crosby's Egyptian or Fireball for the early crop and Detroit Dark Red Turnip for main crop and late crop are recommended to home gardeners as providing the very finest table quality. Swiss Chard should be in every home garden.

**CROSBY'S EGYPTIAN.** Famous for shape, color and quality. Vaughan's strain, constantly selected to maintain and improve uniformity, flavor and other excellent qualities, is very early; has deep red color; "zoned with a lighter color;" is smooth and tender, and has sweet flesh that is richly palatable.

**Vaughan's Selected Stock**—Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25; by express, 5 lbs., $5.50.

**Standard Stock**—Pkt., 10c., oz., 15c; ¼ lb., 35c; lb., $1.00 by express, 5 lbs., $4.50.

**EARLY WONDER.** A selection from Crosby's Egyptian. The roots grow a little deeper, more of a globe shape and are deep blood-red with almost no lighter zoning in the cross section of a root. Top small, but large enough for bunching, small tap root. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25; by express, 5 lbs., $5.50.

**DETROIT DARK RED TURNIP.** A main crop variety unequaled as a big cropper. Perfect turnip-shape, small tap root, small upright tops—fine for market bunching. Skin and flesh dark, blood-red, sweet, tender and delicious.

**Vaughan's Selected Stock**—Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25; by express, not prepaid, 5 lbs., $5.50.

**Standard Stock**—Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., $1.00; by express, 5 lbs., $4.50.

**CRIMSON GLOBE.** Second early main crop, of medium size, about 10 inches around, globe-shape, uniform, without rootlets and perfectly smooth. Foliage is small, rich, purple-bronze color. Flesh is rich blood-red, sweet, tender and never stringy. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., $4.00.

**EDMAND'S BLOOD TURNIP.** One of the best, round, well formed, has only one tap root, flesh is deep blood-red, very sweet and tender. They do not grow large and coarse, and, having small tops, they can be planted closely. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; by express, 5 lbs., $4.00.

### Health Value of Fresh Pulled Beets

Calories per lb., 209. Vitamines A, B, C, D. Proteins 1.6% Fats .1% Carbohydrates 9.7%

Minerals:

| | | | | | |
|---|---|---|---|---|---|
| Calcium | .029% | Potassium | .353% | Sulphur | .016% |
| Magnesium | .021% | Chlorine | .058% | Iron | .0006% |
| | | Sodium | .093% | | |

**VAUGHAN'S FIRE BALL.** It is early, maturing with "Crosby's Egyptian," has fine globe shape, deep red color and the flesh is solid and very sweet. The tops are small and permit close planting. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.

**HALF-LONG BLOOD.** A splendid winter sort, half the length of "Long Smooth Dark Blood," but equally heavy, because thicker. Always smooth, rich dark red; flesh sweet, tender and crisp. Never woody. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**VAUGHAN'S CHICAGO MARKET.** A main crop variety of great merit; is turnip-shaped, medium size, tops rather small, and has a fine tap root. The color is perfect dark blood-red; the leaves almost black; does not soon overgrow when left in the garden, and is a fine keeper. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.

**EARLY BLOOD TURNIP.** Good color, large and smooth. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; by express, 5 lbs., $4.00.

**ECLIPSE.** Roots globular, small tap root. Flesh dark red, zones lighter shade, very sweet, crisp and tender, especially when young. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00, by express, 5 lbs., $4.50.

**LONG SMOOTH DARK BLOOD.** Long, slender roots seldom more than 2 inches through, matures rather late, but is an excellent keeper. Flesh is dark red, sweet and tender. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**IMPROVED EARLY EGYPTIAN.** The best variety for forcing and first early crop. Roots very dark red, rounded on top, flat beneath, small tops. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; by express, 5 lbs., $4.50.

# Broccoli

A vegetable similar to Cauliflower, of less delicate flavor, but hardier. Of value in Northern latitudes, where Cauliflower does not do well. Broccoli has become popular in the winter markets of recent years and is extensively grown in Oregon for shipment east. In the home garden the green sprouting kind yields a crop from July until the ground is frozen hard.

**ITALIAN GREEN SPROUTING.** See Novelty Pages 14 and 15. Pkt., 25c; oz., 65c; ¼ lb., $2.00.

**LARGE WHITE MAMMOTH.** Good white heads. Pkt., 10c; oz., 50c; ¼ lb., $1.50.

# Brussels Sprouts

Brussels Sprouts are miniature cabbages formed on a plant stalk. The delicate flavor is improved by a touch of frost. The culture is practically the same as for cabbage. For late use sow seed in June.

**LONG ISLAND IMPROVED.** The most satisfactory Brussels Sprouts for American conditions; hardy, early, and a heavy yielder. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.

**IMPROVED DWARF.** Dwarf habit and less liable to aphis than others. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $2.00.

BRUSSELS SPROUTS

### Health Value of Fresh Picked Brussels Sprouts

Minerals:

| | |
|---|---|
| Calcium | .027% |
| Magnesium | .040% |
| Potasium | .375% |
| Chlorine | .040% |
| Sulphur | .194% |
| Iron | .0011% |
| Sodium | .004% |

VAUGHAN'S MAMMOTH LONG RED

# Roots for Feed

**BARRES SLUDSTRUP.** This Mangel holds the world's record for dry matter content. It is a long, reddish yellow, ovoid root, growing more than half above ground. Easily harvested, and by actual test far excels any other variety in weight and in feeding value. Our seed is from best Danish growers. Oz., 10c; ¼ lb., 25c; lb., 60c; 5 lbs., $2.50

**VAUGHAN'S MAMMOTH LONG RED.** Largest and heaviest cropper of long red sorts; yields up to 40 tons per acre on well prepared land. Dark foliage, bright red skin and white flesh veined with pink. Grows well up above the ground. Oz., 10c; ¼ lb., 25c; lb., 60c, 5 lbs., by express, $2.50.

**GIANT YELLOW ECKENDORF.** One of the most popular European varieties; heavy yielder. Yellow roots, cylindrical 15 to 20 pounds each, grow above ground. Oz., 10c; ¼ lb., 25c; lb., 60c; 5 lbs., $2.50.

**GOLDEN TANKARD.** Smooth, yellow flesh, small yellow-stemmed top, length 11 inches, diameter 4 inches, shape cylindrical. Very nutritious. Oz., 10c; ¼ lb., 25c; lb., 60c; 5 lbs., $2.50.

**CHAMPION YELLOW GLOBE.** Skin a rich yellow, flesh white and solid; grows two-thirds above ground, the best for shallow soils. Good keeper. Oz., 10c; ¼ lb., 25c; lb., 60c; 5 lbs., $2.50.

**GIANT ROSE HALF SUGAR.** Combines best qualities of Sugar Beets and Mangels. About the same shape as Long Red, but has white skin and flesh. Highly nutritious and a big producer. Oz., 10c; ¼ lb., 25c; lb., 60c; 5 lbs., $2.50.

## Sugar Beets

The kinds offered below are grown from roots, the test analysis of which showed high sugar content. Prices of the following: Oz., 10c; ¼ lb., 25c; lb., 60c; 5 lbs., by express, $2.50.

**VILMORIN'S IMPERIAL.** Improved French variety; large, thick at shoulder, tapering below; yields nearly as much as the Mangels.

**KLEIN-WANZLEBEN.** Wedge-shape tapering to long tail.

# Cabbages of All Types

MARION MARKET

### Health Value of Fresh Picked Cabbage

Calories per lb., 143. Vitamines A, B, C, D.

| | | Minerals | | | |
|---|---|---|---|---|---|
| Proteins | 1.6% | Calcium | .045% | Chlorine | .024% |
| Fats | .3% | Magnesium | .015% | Sulphur | .066% |
| Carbohydrates | 5.6% | Potassium | .247% | Iron | .0011% |
| | | Sodium | .027% | | |

THE earliest cabbages may be enjoyed in June from seeds sown in the house or in a hot-bed. Early Jersey Wakefield matures in 90 days, and later varieties in 100 to 115 days. Both early and late varieties should be started indoors, and for fall and winter cabbages the late varieties should be started in a seed bed in May. Savoy cabbages excel in table quality and are recommended for the home garden. Plenty of room should be given plants, at least two feet each way. They need a light and well watered soil, rich in nitrogen. Frequent applications of nitrate of soda or some other nitrogenous fertilizer will work wonders.

Cabbage worms are quickly disposed of by dusting young plants lightly with a mixture of 1 lb. calcium arsenate to 10 lbs. of gypsum or lime. Use a duster in applying it, as it will burn if applied too thickly. See page 103 for dusters and page 102 for the insecticides.

## Yellows Disease Resistant Cabbage

The loss of large acreages by the disease called yellows caused an investigation by the plant pathologists of the University of Wisconsin. No claim is made of immunity from other diseases, such as clubfoot, stem rot or black rot. We list varieties in order of maturity and offer only stocks that have been tested in the diseased cabbage fields of Wisconsin and found to be 80 to 98% yellows resistant. Special prices on quantities to Market Gardeners.

**JERSEY QUEEN.** See Novelty Pages 14 and 15. Pkt., 25c; ½ oz., 60c; oz., $1.00; ¼ lb., $3.00.

**A Planting of All Season Disease-Resistant is shown fully matured planted in the same field with varieties completely destroyed by the "Yellows."**

**MARION MARKET.** Pkt., 25c; ½ oz., 60c; oz., $1.00; ¼ lb., $3.00.

**GLOBE.** See Novelty Pages 14 and 15. Pkt., 20c; oz., 85c; ¼ lb., $2.50; lb., $8.00.

**ALL HEAD.** A yellows-resistant strain of the best early Flat headed variety. Good for kraut, market and home use. Pkt., 15c; ½ oz., 45c; oz., 75c; ¼ lb., $2.00.

**ALL SEASONS YELLOWS RESISTANT.** An early or kraut variety, a selection from the standard All Seasons second early variety. The large kraut growers of the United States now plant this variety almost exclusively. Originated by Prof. L. R. Jones, U. of W. Pkt., 15c; ½ oz., 35c; oz., 60c; ¼ lb., $1.75; lb., $6.00.

**BUGNER.** A winter variety bred yellows-resistant by means of continual selection on yellows soil near Chicago. Pkt., 15c; ½ oz., 35c; oz., 60c; ¼ lb., $1.75; lb., $6.00.

**WISCONSIN No. 8.** A late winter keeping cabbage selected from the Dutch Winter or Hollander variety. Pkt., 15c; ½ oz., 35c; oz., 60c; ½ lb., $1.75; lb., $6.00.

## Standard Bred Seeds

**RE-SELECTED COPENHAGEN MARKET EXTRA EARLY.** As the earliest of the larger heading cabbages Copenhagen Market is of the utmost importance to both home and market growers. Our re-selected early strain has been sold by us for seven years with remarkable results. Truck gardeners have reported that their entire crop from this seed has been marketed before Copenhagen heads from other seed were ready to cut. The product is uniformly early with few outside leaves. This strain is the result of years of work by a European breeder who we believe first bred and produced the Copenhagen Market.

**Re-selected Tested Stock.** Pkt., 15c; oz., 60c; ¼ lb., $1.75; lb., $6.00.

**Standard Stock.** Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.00.

**VAUGHAN'S SURE HEAD.** This is a large roundflatheadedvariety, uniform size and weighing 10 to 15 pounds each. Pkt., 10c; oz., 30; ¼ lb., 80c; lb., $2.75.

**PENN STATE BALLHEAD.** A very heavy yielding strain of the short stem type of Danish Ballhead bred and introduced by Dr. Myers of Pennsylvania State College. Yields as high as twenty-six tons per acre have been recorded. Pkt., 15c; oz., 75c; ¼ lb., $2.50.

**BRIDGEPORT DRUMHEAD.** The best Large Fall Shipping Cabbage in existence. We introduced this variety over thirty years ago. The original type has been kept up and improved to a high degree of perfection. Pkt., 10c; oz., 30c; ¼ lb., 75c; lb., $2.50.

**NEW CABBAGE—GOLDEN ACRE.** This is a very good selection of the Copenhagen Market type with heads smaller than our re-selected strain. The season is a trifle earlier. Very uniform. Pkt., 15c; oz., 60c; ¼ lb., $1.75; lb., $6.00.

**VAUGHAN'S SELECT EARLY JERSEY WAKEFIELD.** This extra early conical-shaped head cabbage is the best early for planting in the United States. Earliness and hard heading in this variety are most important to growers. Early Jersey Wakefield Cabbage is a specialty with us, and to secure the best seed on our growing farms we spare no expense. More seed of this sort is planted in the United States than of all other varieties of the same type together. The heads are hard, the outside leaves small, so that close planting is possible. Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.00.

**VAUGHAN'S ALL SEASONS.** This special Vaughan's Cabbage, although really an early is suited to every growing season. Even when planted very late it keeps well, and is of much better quality than the big ribbed winter sorts. The heads are large and solid, leaves small ribbed; matures about same time as "Early Summer" with larger head. Pkt., 10c; oz., 30c; ¼ lb., 80c; lb., $2.75.

**GLORY OF ENKHOUSEN.** An early, globe-shape, medium size, sure heading and a splendid keeper. Matures right after Copenhagen Market. More uniform and more even maturing than Copenhagen. Originator's stock. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**ALL HEAD EARLY OR FAULTLESS.** Amateur growers who plant only one variety should select this one. This sort matures large, uniform heads of handsome appearance and unsurpassed quality for eating. Pkt., 10c; oz., 30c; ¼ lb., 80c; lb., $2.75.

**EARLY SUMMER (New York).** The heads are round and flattened. Follows "Jersey Wakefield." The heads are of fair size, solid, quality good, has an attractive appearance, being tinged with a peculiar shade of blue. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**EARLY FLAT DUTCH.** Sure solid header; weighs 10 to 12 pounds. Even size, matures with "Early Summer," a Second Early; it stands long without bursting. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**SUCCESSION.** Heads large, flatter than "Early Summer," two weeks later, but more uniform. Pkt., 10c; oz., 30c; ¼ lb., 80c; lb., $2.75.

**DANISH BALLHEAD, TALL.** From Amager Island, Denmark, comes Vaughan's seed of this most famous and popular of winter cabbages. It has a perfectly solid head, unequaled keeping and shipping qualities, correct market size, hard and heavy heads, weighing a fourth more than other sorts of equal size, fine grained, leaves deliciously tender.

**Vaughan's Selected Stock.** Pkt., 10c; oz., 40c; ¼ lb., $1.00; lb., $3.50.

**DANISH BALLHEAD SHORT STEM.** Or Dwarf Amager. This variety is almost identical with "Dutch Winter or Hollander." We import our seed direct from Amager Island, Denmark; and we supply one-year-old, proven stock, if wanted. Pkt., 10c; oz., 45c; ¼ lb., $1.25; lb., $4.00.

**DUTCH WINTER OR HOLLANDER.** Excels as a "late spring" seller. The heads averaging about 8 pounds, very solid, have a distinct, white color; coming out as fine and as perfectly solid in the spring, as when put away in the fall. Pkt., 10c; 1 oz., 35c; ¼ lb., 90c; lb., $3.00.

EARLY JERSEY WAKEFIELD

**VAUGHAN'S PREMIUM LATE FLAT DUTCH.** Of the Flathead varieties this large-heading sort is the most popular. Seed may be sown in the open ground and plants raised without the use of hotbeds. Pkt., 10c; oz., 30c; ¼ lb., 80c; lb., $2.75.

**EARLY WINNIGSTADT**—Sure to head, regular, conical shape, very hard and hardy, a good keeper. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.

**CHARLESTON WAKEFIELD.** This sort matures a few days later than "Jersey Wakefield," with heads much larger and uniform. Very popular with Southern growers; it does well on heavy soil. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

## Red Cabbage

**MAMMOTH ROCK RED.** The hardiest and largest heading red cabbage. Produces heads in about 120 days, round, very solid and of a deep red color, often weighing up to 12 pounds each. This variety is much used for cole slaw and pickling. Pkt., 10c; oz., 35c; ¼ lb., 90c.

**HACO, EARLIEST ROUND RED (New).** This new sort originated in Denmark, and the seed we offer was grown especially for us by the originator. The color is intense dark red throughout, heads trimmed average 3 lbs., each. Pkt., 15c; ½ oz., 35c; oz., 60c: ¼ lb., $1.75.

**VAUGHAN'S BLACK DIAMOND.** A new second season black-red variety. Pkt., 10c; oz., 35c; ¼ lb., 90c.

**RED YELLOWS RESISTANT.** Not as large as Mammoth Rock Red, but darker and more uniform color. Pkt., 15c; ½ oz., 65c; oz., $1.00; ¼ lb., $3.00.

## Savoy Cabbage

**IRONHEAD.** A large solid head, very early. Pkt., 10c; oz., 30c; ¼ lb., 90c.

**IMPROVED AMERICAN SAVOY.** The best of the main crop of Savoy leaved cabbages. The vigorous short stemmed plant forms a large, fairly solid head, sweet and tender. Pkt., 10c; oz., 30c; ¼ lb., 90c.

IMPROVED AMERICAN SAVOY

## Celery Cabbage

**CELERY CABBAGE OR CHINESE PE TSAI.** See Novelty Pages 14 and 15. The VAUGHAN Strain. This exceptionally fine vegetable is rapidly growing in public favor. Its growth resembles the Cos lettuce, but the outer leaves have the general texture of ordinary cabbage. When the outside leaves are stripped away the cabbage presents a well nigh irresistible appearance. Our strain of this seed is grown in China by a specialist whose family has raised and selected this particular type for many years. The heads blanch without tying. July is the proper planting time. Pkt., 10c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

**CELERY CABBAGE "PAOTING"** Genuine "WONG BOK" type. We have obtained from our Chinese growers this new variety of the "Wong Bok" type which differs from the Pe Tsai type in being shorter and thicker. Will mature firm heads thru the summer months. It has produced heads weighing 15 pounds and stands long before going to seed. In crispness and tenderness it resembles the Pe Tsai and has the same fine, celery flavor. It is the largest of the Chinese cabbages and is probably the safest variety for an amateur to plant in the spring. Pkt., 10c; oz., 35c; ¼ lb., 90c; lb., $3.00.

**CARDOON.** Main stalks are blanched like Celery; used for salad or in soups. Pkt., 10c; oz., 40c; ¼ lb., $1.00.

CELERY CABBAGE "PAOTING"

VAUGHAN'S NEW SNOWBALL

# Cauliflower Give it An Early Start

### Health Value of Fresh Picked Cauliflower

Calories per lb., 139. Vitamines A, B, C, D. Proteins 1.8% Fats .5% Carbohydrates 4.7%

Minerals

| | | | | | |
|---|---|---|---|---|---|
| Calcium | .123% | Potassium | .222% | Sulphur | .086% |
| Magnesium | .014% | Chlorine | .050% | Iron | .0006% |
| | | Sodium | .068% | | |

CAULIFLOWER is an exacting crop, yet success is easy where the conditions are right. Like radishes, this plant makes quick growth in cool weather. Start the first crop early in the house and transplant into rich, light soil, where plenty of water can be given. Cabbage worms may be killed by Slug Shot, Pyrox or arsenate of lead used before the heads begin to form. To bleach the heads tie up the leaves over them.

**VAUGHAN'S SELECT SNOWBALL.** This closely resembles New Snowball but has the additional features of more foliage for protection and is more uniform in heading. The seeds are about one-third smaller. Pkt., 25c; ¼ oz., $1.10; ½ oz., $2.00; oz., $3.75; ¼ lb., $14.00.

**VAUGHAN'S NEW SNOWBALL.** For early outdoor planting and forcing. A well-grown head will measure 9-10 inches across and have depth in proportion, will be solid, and have a perfectly white core. It is dwarf in growth and earlier than any other sort. This strain is also extensively planted for late summer and fall market. Pkt., 25c; ¼ oz., 75c; ½ oz., $1.40; oz., $2.50; ¼ lb., $8.50.

**VAUGHAN'S EARLIEST DWARF ERFURT.** Before the advent of Vaughan's "New Snowball," Earliest Dwarf Erfurt was the standard of early Cauliflowers. In all respects it is similar to Vaughan's New Snowball, but a few days later. Pkt., 25c; ¼ oz., 70c; ½ oz., $1.25; oz., $2.25; ¼ lb., $8.00.

**DRY WEATHER CAULIFLOWER.** This sort is grown to provide, as far as possible, against hot, dry-weather contingencies of crop failure. It is a very sure header, heads larger than Snowball, and is snow-white, second early. Pkt., 25c; ¼ oz., 75c; ½ oz., $1.40; oz., $2.50; ¼ lb., $8.50.

**DANISH SNOWBALL.** Later than Vaughan's "New Snowball." A splendid second early. Although not so early, nor as even as Vaughan's Snowball, it gives satisfying profit. Pkt., 25c; ¼ oz., 70c; ½ oz., $1.25; oz., $2.25; ¼ lb., $8.00.

**AUTUMN GIANT.** In Southern localities this meets with favor as a large heading late fall sort. Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., $1.75.

**VEGETABLE CULTURE, PRACTICAL. By Albert E. Wilkinson.**

In this book all phases of vegetable culture are covered from sowing seed to reaping the harvest. They are innumerable garden plans of all kinds and of all sizes; greenhouse, hotbeds, cold frames, home vegetable storage, control of pests and diseases, etc., are discussed in detail. 308 pages; 177 illustrations. Cloth, $2.00; $2.10 postpaid.

OXHEART | DANVERS HALF LONG | IMPROVED LONG ORANGE | NANTES HALF LONG | EARLY CHANTENAY

# Table Quality Carrots

## Fine for Health and Good to Eat

CARROTS are not alone one of the most wholesome of foods, supplying precious vitamines, but when half-grown are one of the greatest delicacies possible to place on the table. Persons who say they do not like carrots usually will be found never to have tried them young. The seeds are very slow to germinate and they should be marked in the row with radishes or some other quickly-maturing crop which will be harvested before the carrots crowd. Mellow soil which will not bake over the seeds and will not harden in midsummer is the kind carrots like. Plant in rows 18 to 24 inches apart and thin 3 to 4 inches apart.

**VAUGHAN'S SELECT DANVERS.** This is deservedly popular. It is two weeks later than Chantenay and the diameter of the root is slightly smaller. It is a half-long type, averaging five and one-half inches in length tapering to a blunt point. The color is a rich, deep orange, the table quality excellent, its yield greater per acre than any other.

**Selected Stock**—Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50; 5 lbs., $6.75.

**HALF LONG DANVERS.** Standard Stock. More pointed and slightly smaller than Select. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., $1.25; 5 lbs., $5.50.

**NANTES HALF LONG SCARLET.** For extra sweetness, this is all by itself. It is of good shape and size. The leaves are fine and the roots almost cylindrical, very smooth and grow about six inches long; the flesh is entirely red and very sweet and almost entirely without a core. This is strongly recommended to home gardeners. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50; 5 lbs., $6.50.

Carrot Trials at Vaughan's Michigan Farms

**EARLY CHANTENAY.** This excellent variety is earlier than Danvers, being ready to use in sixty days after sowing. It is slightly shorter and more stump-rooted, averaging 4½ inches in length, tapering slightly from well-set shoulders. It is smooth, of a deep orange color, and of high table quality. Home gardeners may grow this for all purposes. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**Selected Stock**—Pkt., 10c; oz., 25c; ¼ lb., 50c; lb., $1.50.

**EARLY SHORT SCARLET. (Dutch Horn.)** Larger than French Horn and almost as early, stump-rooted, 1½ inches thick, three inches long; fine grain, sweet-flavored, rich orange. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**IMPROVED LONG ORANGE.** A well-known sort, roots long, thickest near the crown, tapering regularly to a point, colored deep orange. It is a good keeper of fine quality for winter use, and extensively grown for stock feeding. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., $4.00.

**CARROT, VAUGHAN'S CHICAGO FORCING.** A nearly cylindrical, blunt pointed coreless carrot, from 1 to 1½ inches in diameter, carrying its size nearly to the point. The best flavored and most tender variety. Pkt., 15c; oz., 25c; ¼ lb., 75c; lb., $2.50.

### Health Value of Fresh Picked Carrots

**Calories per lb., 204. Vitamines A, B, C, D.**
**Proteins 1.1% Carbohydrates 9.3% Fats .4%**

Minerals

| | | | |
|---|---|---|---|
| Calcium | .056% | Chlorine | .036% |
| Magnesium | .021% | Sulphur | .022% |
| Potassium | .287% | Iron | .0006% |
| Sodium | .101% | | |

**GUERANDE OR OXHEART.** Is a variety of very rapid growth, each attains a weight of more than one pound. It is thick, 5 inches long, has fine flavor and tenderness. A second early. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**VERY EARLY SCARLET FORCING. (French Horn.)** Best variety for earliest forcing. Reddish orange-colored roots, nearly round. When matured they are about two inches in diameter. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**CARROT, RED CORE CHANTENAY.** The shape is the same as regular Chantenay. The core is more red, giving it the appearance of being coreless. This carrot is more tender and better flavored than the standard Chantenay, but it is also influenced to a great degree by weather and soil conditions. It is however, a desirable improvement over the regular Chantenay. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

## Carrots for Stock

**MASTODON OR WHITE INTERMEDIATE.** Heaviest cropping Carrot. Roots short, white, very heavy at shoulder, easy to harvest without breaking. One of the most profitable sorts. Oz., 10c; ¼ lb., 30c; lb., 90c; 5 lbs., $4.00.

**LONG WHITE BELGIAN.** Similar to Long Orange except in color. Oz., 10c; ¼ lb., 30c; lb., 90c; 5 lbs., $4.00.

# Tree and Evergreen Seeds

EVERGREEN seeds should be sown very early in spring, in a firm, sandy seed-bed. Give the young seedlings partial shade during the first summer. Apple, Pear and Locust should be mixed with sand in boxes and exposed to frost. We handle a full line of Tree Seeds. Write for our special price list.

**One pound lots and less include postage.**

**APPLE.** Pkt., 10c; oz., 30c; ¼ lb., 75c; lb., $2.00.

**ARBOR VITAE** (American). Pkt., 10c; oz., 55c; ¼ lb., $1.25; lb., $4.50.

**CATALPA SPECIOSA.** Pkt., 10c; oz., 25c; ¼ lb., 50c; lb., $1.25.

**LOCUST, BLACK OR YELLOW.** Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.50.

**LOCUST, HONEY.** Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.50.

**OSAGE ORANGE.** Pkt., 10c; oz., 30c; ¼ lb., 75c; lb., $2.25.

**PEAR, FRENCH.** Pkt., 10c; oz., 60c; ¼ lb., $1.25; lb., $4.50.

**PINE, SCOTCH.** Pkt., 10c; oz., 45c; ¼ lb., $1.00; lb., $3.25.

**SPRUCE, NORWAY.** Pkt., 10c; oz., 35c; ¼ lb., 80c; lb., $2.50.

NEW CELERY GOLDEN PLUME

# You Can Grow Celery

## It Will Succeed in Light Fairly Rich Soil

### Health Value of Fresh Picked Celery

Calories per lb., 84. Vitamines A, B, C, D.

| | | Minerals | | | |
|---|---|---|---|---|---|
| Proteins | 1.1% | Calcium | .078% | Chlorine | .156% |
| Fats | .1% | Magnesium | .014% | Sulphur | .022% |
| Carbohydrates | 3.3% | Potassium | .316% | Iron | .0005% |
| | | | Sodium .084% | | |

CELERY is often thought to be difficult to grow. Every home gardener whose soil is sufficiently light and rich to produce good lettuce and cabbages may easily produce a family supply of this most welcome delicacy. Start the seed indoors and set the plants out around the middle of May, 8 inches apart for the early kinds and a foot for the winter varieties. Where the soil is very rich they may be grown closer. Keep them growing and do not work over the plants when they are wet with dew or rain.

Vaughan's Celery Seed is of the finest strains in the world and is used by market gardeners selling to the most exacting trade.

**For the Home Garden**—We recommend Emperor and Golden Self-Blanching.

**GOLDEN SELF-BLANCHING. Vaughan's Selected Stock** of this famous celery excels all other yellow varieties. Dwarf bunches, with broad, heavy stalks, blanch into a rich, appetizing, golden yellow. Though the stalks are heavier than white varieties, its sweetness, tender crispness, delicious flavor and absence of strings, make it a favorite. The French originators of this type have lately introduced a re-selected strain which they are now using. It is earlier and stronger growing than the older type. We offer the two strains separately, the French grown by the originators and American grown.

**Tall Strain.** Selected French-Grown.—Pkt., 20c; ½ oz., 70c; oz., $1.25; ¼ lb., $4.00.

**Dwarf Strain,** American-Grown.—Pkt., 10c; ½ oz., 40c; oz., 70c; ¼ lb., $2.00.

**WHITE PLUME.** Leader among white varieties. It excels in crisp and tender table quality. Its habit of growing is vigorous, stalks are uniformly white, and large sized.

**Selected Stock**—Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.35.

**GIANT PASCAL.** The stalks are large, solid, crisp and of rich nutty flavor. It blanches easily and quickly. The heart is golden yellow. For Fall and Winter, this is a splendid sort. It is a selection from "Golden Self-Blanching," with added keeping quality. Pkt., 10c; oz., 35c; ¼ lb., $1 00.

**GOLDEN PHENOMENAL.** A new celery having the growing characteristics of Golden Plume. Taller, growing longer to the first leaf and heavier stalk. Free from any strings, fine flavor and excellent quality. Pkt., 25c; ½ oz., 75c; oz., $1.40; ¼ lb., $4.50.

**EMPEROR.** Almost in a class by itself for flavor and brittleness. It is dwarf in type (hence easier to blanch than taller kinds), second early and a good winter keeper. The stems are round. Bred especially for freedom from hollow stalks. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.50.

**EASY BLANCHING.** A vigorous grower, of medium dwarf height, stalks thick, quality excellent. A most desirable variety for the amateur. Second early. Pkt., 10c; oz., 50c; ¼ lb., $1.50.

**Selected Strain**—Especially for market gardeners. Pkt., 15c; ½ oz., 65c; oz., $1.25; ¼ lb., $4.00.

**GOLDEN DETROIT**—See Novelty Pages 14 and 15. Pkt., 25c; ½ oz., 85c; oz., $1.50.

**NEW CELERY GOLDEN PLUME.** A selection from or a cross with the Golden Self-Blanching, the stalks are short—the heart is large, with a protecting tuft of foliage in the middle. More vigorous than Golden Self-Blanching, it withstands heat and blight better. It is a beautiful gold in color, brittle and of the highest table quality. Pkt., 20c; ½ oz., 45c; oz., 75c; ¼ lb., $3.00.

**WINTER QUEEN.** An excellent winter sort with double the amount of heart of any known celery. A beautiful plant of close habit and compact growth; crisp and has delicious nutty flavor. Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., $1.15.

**SOUP CELERY OR SMALLAGE.** Green foliage used for soups. Oz., 15c; ¼ lb., 45c.

**KALAMAZOO or Giant White Solid.** A tall, heavy, solid and very white late variety. A favorite in many localities where celery is grown for market. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.25.

CHIVES

## Cardoon

Main stalks are blanched like Celery; used for salad or in soups. Pkt., 10c; oz., 40c; ¼ lb., $1.00.

## Chervil

**DOUBLE CURLED.** An aromatic plant resembling parsley but being superior in flavor. The leaves when young are used for flavoring and garnishing meats. Seed requires four to five weeks to germinate.

## Chives

A perennial herb, a member o the onion family which every garden should grow. The slender tubular leaves have a delicate onion flavor, just enough to season a green salad when the chopped-up leaves are used. The seeds are used for seasoning. The flowers are a beautiful lavender. Pkt., 10c; ½ oz., 40c; oz., 75c. Plants, 3 for 65c; doz., $2.00; 100, $12.00.

## Collards

A leafy plant having foliage similar to that of cabbage, but does not form a head. Is used as a greens and is adapted to districts where the cabbage does not head readily. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

## Chicory

**WITLOOF (FRENCH ENDIVE).** A European delicacy now standard in all best hotels and restaurants in the U. S. It is easily grown. Sow in spring; store parsnip-like roots in sand until wanted for growing on in winter; directions on packages. Special strain. Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., $2.50.

**Roots of above, 3 for 40c, postpaid** (with forcing directions up to April 1st).

**Large Rooted Magdeburg.** Roots are cut in thick slices, roasted and used as coffee; in spring leaves make good salad. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.60.

**ASPARAGUS CHICORY.** See Novelty Pages 14 and 15. Pkt., 25c; ½ oz., 50c; oz., 75c.

WITLOOF CHICORY

CELERIAC—Large Smooth Prague

## Celeriac

TURNIP ROOTED CELERY

This vegetable deserves much wider cultivation. Cooked and prepared as a salad, it has a rich, celery flavor. The roots keep well in winter—recipes for preparing enclosed with seed.

**LARGE SMOOTH PRAGUE.** Excels in quality, size and appearance. A **main crop** variety, nearly globe-shape and almost twice the size of Erfurt. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.25; lb., $4.00.

CURLED GARDEN CRESS

## Cress

**UPLAND CRESS.** Has highly prized flavor of Water Cress. Green all year; ready for use before any other salad. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.50.

**CURLED GARDEN.** Used with Lettuce, it adds an agreeable pungency. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.00.

**WATER CRESS (Wasser Kresse; Cresson).** The pleasant flavor of Water Cress makes it one of the most delicate salads. It grows where there is a good supply of pure fresh water; it can also be grown in tubs of good soil in a shady place, if plenty of water is given it. Pkt., 15c; oz., 50c; ¼ lb., $1.60.

## Corn Salad

**FIELD SALAD. (Mache-Stick, Salat.)** A most refreshing salad. Hardy, much used in Winter in place of Lettuce. Sow either in Spring or Fall. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

CORN SALAD

# Sweet Corn Is the Supreme Home Garden Crop

## Only by Growing Your Own Can You Enjoy It at Its Best

SWEET CORN is the home garden crop. Scientists say the sugar content of such a variety as Stowell's Evergreen is 5 per cent; and within thirty minutes after it has been picked, this percentage will begin to decrease through chemical action. Only the home gardener, therefore, can enjoy it at its best, this, the greatest of American table delicacies. Sweet Corn may be sown earlier than field corn. May 1st is usually safe in the latitude of New York and Chicago. Fertilizer will give a good start and an early harvest.

Our special strains of Sweet Corn include Bantam Evergreen, which is a large Golden Bantam, produced by crossing this variety with Stowell's Evergreen; Golden Bantam, a strain larger and earlier than others; 60 day White especially selected for early maturity; **Vaughan's Earliest**, the best variety for the Northern country, and Early Evergreen.

**For the Home Garden**—First early, Vaughan's Earliest; Golden 60-Day, Golden Bantam, main early crop, Bantam Evergreen followed by Stowell's Evergreen, Black Mexican or by successive plantings of Golden Bantam. A very fine quality early white corn is the 60 Day White, our own growing.

## Yellow

**GOLDEN GEM**—See Novelty Pages 12 and 13. This is an entirely new variety developed by the North Dakota Agricultural College, and is the earliest yellow sweet corn on the market. As compared with Sunshine or 60-Day Yellow it is a week to ten days earlier, producing practically the same size ear but of an eight and ten-row type. Its productive and early qualities make it an outstanding variety of the yellow sweet corn class. Is an excellent addition to the garden. Pkt. 15c; ½ lb., 35c; lb., 60c; 2 lbs., $1.00.

GOLDEN BANTAM

**GOLDEN 60-DAY.** As early as 60-Day Makegood. It is bred from the Makegood strain crossed with Golden Bantam. Except for its beautiful golden color and slightly pointed ear, it is the same in all respects as our 60-Day Makegood. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**GOLDEN BANTAM.** Now the most popular of all first early Sweet Corns and planted in nearly every garden. Golden Bantam is about a week later in season than Cory or the first earliest. The ears are borne two to a stalk, and are about six inches in length with eight rows of kernels on a cob. We grow our seed of this sort on our own farms in Michigan. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**Extra Selected Strain**—Pkt., 20c; ½ lb., 35c; lb., 65c; 2 lbs., $1.15.

**WHIPPLE'S EARLY YELLOW.** A 14 rowed ear, 7 to 8 inches in length, of good quality, maturing between Golden Bantam and Bantam Evergreen. Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., $2.25.

### Health Value of Fresh Picked Corn

**Calories per lb., 459. Vitamines A, B, C, D.**

| | | | |
|---|---|---|---|
| Proteins | 3.1% | Fats | 1.1% |
| Carbohydrates | 19.7% | | |
| **Minerals** | | | |
| Calcium | .006% | Chlorine | .014% |
| Magnesium | .033% | Sulphur | .046% |
| Potassium | .113% | Iron | .0008% |
| Sodium | .040% | | |

**VAUGHAN'S BANTAM EVERGREEN.** A product of Golden Bantam crossed with Stowell's Evergreen. It has retained the quality of the Bantam and has the more tender skin of the Evergreen. Market gardeners are at last able to sell a merchantable size ear of corn superior to any on the market. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

## White

**VAUGHAN'S EARLIEST**—See Novelty Pages 14 and 15. The earliest medium sized ear of white sweet corn on the market. There are others a few days earlier or as early, but they have not the size nor quality. The ear is sufficiently high on the stalk to make picking easy, and is of sufficient size so that 5 dozen will make a bag for the market. Recommended for both the home gardener and for the early market gardener. Pkt., 15c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $3.00.

**60-DAY WHITE.** Among the many extra early sweet corns recently introduced, this stands out because of its extreme earliness, large ear and good quality. With our Chicago market gardeners who have tried it "60-Day White" has been highly profitable. Height 3 feet, ears 10 to 12-rowed, 6 to 7 inches in length. Pkt., 10c; ½ lb., 25c; lb., 35c; 2 lbs., 65c; 10 lbs., $2.00.

**VAUGHAN'S MAMMOTH WHITE CORY.** The great popularity of this extra early Sweet Corn is due to the fact that it was successfully bred for three important qualities—Earliness, Size, Sweetness. Placed in whichever order you wish, these are the dominant characteristics of this favorite corn. One of the earliest; the ears are as long with two to four more rows of kernels set close, so there is no loss of space on the cob. The grains are of medium size, broad, very white and of high table quality. The stalks are a little less than medium size, vigorous and prolific, usually averaging two ears to the plant. Our seed is grown and bred on our own farms. No more careful selection can be practiced than we use, and ears are dried in crates to insure high germination. Pkt., 10c; 1 lb., 40c; 2 lbs., 75c; 10 lbs., $2.50.

**EARLY MAYFLOWER.** In the New England States this is the earliest sweet corn of good size. White cob and kernels, as large as White Cory. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**HOWLING MOB.** A large-eared fine second early corn. About the same season as Early Champion, ear slightly larger. The kernels are small in size, of delightful flavor. Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., $2.50.

## Pop Corn

**SOUTH AMERICAN**—Or Dynamite. Usually 2 ears to a stalk. Large yellow kernels, 12 to 14 row ear, 6 to 7 inches long, having excellent popping qualities. Pops to enormous size. Popped kernel has no hard center. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 5 lbs., $1.25. For popping, 1 lb., 20c; 5 lbs., 75c; 25 lbs., 12c lb., not prepaid.

**JAPANESE HULLESS**—Pkt., 10c; lb., 35c; 5 lbs., $1.15.

**WHITE RICE**—Pkt., 10c; lb., 30c; 5 lbs., $1.00.

**KANSAS SUNBURST**—See Novelty Pages 14 and 15. Seed, pkt., 15c; ½ lb., 35c; lb., 50c; 5 lbs., $2.00. For popping, lb., 25c; 5 lbs., $1.00; 25 lbs lots, 15c lb., not prepaid.

**EARLY EVERGREEN.** Very large ears are characteristic of this sort. It is earlier than Stowell's Evergreen by 8 to 10 days. This variety remains green for a long time and in northern localities is a surer cropper than Stowell's Evergreen, of which this is a smaller sort. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**STOWELL'S EVERGREEN.** The great standard main crop variety of Sweet Corn. The stalks are strong and vigorous and grow 7 to 8 feet high, and bear ears 8 inches long, with 16 or more rows of the finest sugary grains. We have specialized in this grand sweet corn for many years, and we say with confidence our strain is the best that money can buy. Vaughan's Eastern grown seed develops a larger percentage of sugar than seed grown in the Western States. We quote prices here for both.

**Select Eastern-Grown**—Pkt., 10c; ½ lb., 20c; lb., 35c; 2 lbs., 65c; 10 lbs., $2.25.

**Western-Grown, Eastern Stock Seed**—Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**COUNTRY GENTLEMAN.** Is a late main crop variety. The ears which are 7 to 9 inches long are borne on stalks 6 to 7 feet high. The grain is small and rather round and crowded together on the cob, instead of forming in defined rows. Deliciously tender and sweet. Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., $2.25.

**BLACK MEXICAN.** Everyone who has seen this Corn remembers it and the delicious sweetness and fine grain qualities in spite of its dark color, making it more and more of a favorite every year. Eight to ten-rowed; ears about 8 inches long; kernels bluish purple to black and rather flat. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

STOWELL'S EVERGREEN

**VAUGHAN'S BLACK SUGAR.** This is an Eastern grown selection of the Black Mexican variety. Our grower has selected it for large maturing ears and high sugar qualities. For one who has never grown this corn its quality is a revelation. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**ADAM'S EXTRA EARLY.** Not sweet but early. Pkt., 10c; lb., 30c; 2 lbs., 50c; 10 lbs., $1.50.

**SWEET CORN FOR SUCCESSION.** Plant the following varieties at one time and they mature so as to furnish green corn throughout the season: Early Mayflower, Howling Mob and Early Evergreen. Offer No. C3X. 1 pkt. each (3 kinds) 25c; prepaid.

Our trial ground or experiment department is always anxious to receive criticisms of stocks or strains with an aim to better them. Also, if varieties you are using are not suited for your use, we may be able to help you with suggestions.

TYPICAL FRUIT OF "THE VAUGHAN" CUCUMBER

# Cucumbers for Salads and Pickle

CUCUMBERS are close relatives of melons, but mature in about sixty days and may be brought to maturity with little trouble in the home garden.

The seeds must be sown after the ground becomes warm, and the plants thinned to three or four to the hill. A very rich soil is the best precaution against insects and the blight. The striped beetle should be kept away from the young plants by liberal applications of Slug Shot, powdered arsenate of lead or tobacco dust. The under sides of the leaves must be sprayed with nicotine to kill aphis.

**For the Home Garden**—"The Vaughan" is the finest table cucumber for the home garden. A pickling variety should be grown for pickles.

**"THE VAUGHAN."** The largest of outdoor cucumbers, it is also of first table quality. Compared to other Long White Spine varieties it is much darker in color, more uniform in shape and size, thinner, and more prolific. It is the ideal American forcing variety, as well as an outdoor sort. Our customers who grow it have greenhouse cucumbers raised outdoors. Pkt., 15c; oz., 35c; ¼ lb., $1.00; lb., $3.50.

**CUCUMBER, EARLIEST OF ALL.** A fair size, dark green White Spine. The earliest of good quality we have tried, of especial value in localities where blight prevents the maturing of the late and longer sorts; also of value in the South for first crop. Home gardeners who wish to have the first cucumbers in their neighborhood should try this variety. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**CUCUMBER, EARLY FORTUNE.** An especially fine, medium length White Spine Cucumber much planted in the South for shipment to the Northern markets. It has a fine, dark green color which it holds for a long time after picking. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**VAUGHAN'S IMPROVED ARLINGTON WHITE SPINE.** Is early, and a heavy yielder; it is a beautifully symmetrical, straight type cucumber, 7-10 inches long. Throughout its entire length, the skin is an attractive, glossy dark green; the flesh firm but tender, with delicious flavor; a great favorite especially in the South. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.35.

**DAVIS PERFECT.** Fine length, slimness, beautiful dark green color, transparent-like flesh with deliciously cool, refreshing flavor, and enjoyable crispness, are distinguishing features and qualities of this, popular long white spine variety. Its extremely vigorous growth makes it the best blight resister of the long sorts. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**JAPANESE CLIMBING.** This is a distinct variety having a heavy vine and large leaves and being quite resistant to disease and insects. It is a black spine cucumber and may be used for pickling or slicing. It is good quality and of a dark green color when young turning to a russet-yellow when ripe. May be used on a trellis if desired. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**IMPROVED LONG GREEN.** Vaughan's strain is improved and developed by re-selection. The vines are vigorous, and productive; the fruit (12 inches long) is formed almost as early as on the short sorts. The flesh is very firm and crisp and has a distinctive flavor, they make excellent pickles, and when yellow and ripe the best sweet pickles. The best of the "black spine" varieties. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

### Health Value of Fresh Picked Cucumbers

**Calories per lb., 79. Vitamines A, B, C, D.**

**Proteins .8% Fats .2% Carbohydrates 3.1%**

Minerals

| | | | |
|---|---|---|---|
| Calcium | .016% | Chlorine | .030% |
| Magnesium | .009% | Sulphur | .020% |
| Potassium | .140% | Iron | .0002% |
| Sodium | .010% | | |

**IMPROVED WHITE SPINE.** Medium size, straight, always fine yielder; light green. Pkt. 10c; oz., 20c; ¼ lb., 45c; lb., $1.40.

**ROCKY FORD (Klondyke).** White Spine. A fine market garden sort—between the New Century and Arlington in size—slightly earlier, however. A wonderful keeper and shipper. Good dark green color. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**EXTRA LONG WHITE SPINE.** A great blight resister. It is thicker than "Davis Perfect," straight, smooth, dark shiny green, 8-12 inches long; with superbly flavored, tender, crisp flesh. It is early, vigorous and prolific. Select Stock, Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.35.

**DELTUS.** A dark green cucumber nearly free from spine, may be used for forcing out of doors. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**FORDHOOK FAMOUS**—White Spine. As long as "Davis," slightly bent but very handsome, twelve to fifteen inches. Quality superb. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**FOJIN**—See Novelty Pages 14 and 15. Pkt., 25c; oz., 65c; ¼ lb., $2.00.

WESTERFIELD'S CHICAGO PICKLE

## Pickling Type

**WESTERFIELD'S CHICAGO PICKLE.** Since we first introduced this pickle years ago, it has been a distinguished success. The maintenance of fine shape, right size and excellent quality in this splendid pickle are, as always have been, matters of great pride with us. When ripe the fruit is medium size, blunt at both ends, has prominent black spines. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.15.

**IMPROVED JERSEY PICKLE.** This is a famous kind for making vinegar pickles. Owing to its light color it makes what pickle men call "light" pickles, excellent for "Gherkins." Its shape in the fruit is broader at the tip than at the stem end while in the pickle state it is nearly straight. It is very prolific. Our seed is very uniform. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**SNOW'S FANCY PICKLING.** This is a selection made originally from the "Chicago Pickle" by a veteran pickle grower in the West. The type is shorter when ripe than the Chicago Pickle and is broad at the stem end, tapering slightly to the tip. The small pickles, although quite similar to the Chicago Pickle, have an additional value where blight prevails. The fruit being smaller, the blight does not sap the strength of the vine to the detriment of a crop. We offer a strain of most carefully selected seeds from fields inspected by us. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**GROW QUICK.** A pickle type similar to Chicago Westerfield in size and shape, but a week or ten days earlier. It usually matures its crop before the early blight appears. Pkt., 15c; oz., 30c; ¼ lb., 75c; lb., $2.00.

**WEST INDIA GHERKIN.** A very small oval prickly sort, distinct from all others. It is grown for pickles only and must be used when young. Pkt., 15c; oz., 30c; ¼ lb., 75c; lb., $2.00.

**GREEN PROLIFIC OR BOSTON PICKLING**—Smooth, symmetrical pickle, very early and productive. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

| | Pkt. | Oz. | ¼ lb. | Lb. |
|---|---|---|---|---|
| Early Cluster | 10c | 15c | 45c | 1.25 |
| Early Frame or Short Green | 10c | 15c | 45c | 1.40 |

## Odd Cucumbers

**LEMON CUCUMBER.** Not the same as the Garden Lemon, though similar in appearance. It is a real luscious flavored cucumber, a worthy addition to the list. Pkt., 15c; oz., 25c; ¼ lb., 75c; lb., $2.00.

**SERPENT OR SNAKE.** A curious, usually much twisted cucumber. Pkt., 10c; oz., 25c; ¼ lb., 75c.

## English Frame Cucumber

**ROLLISON'S TELEGRAPH.** English greenhouse grown. Pkt., 25c.

Cucumber beetles are easily controlled by dusting the young with a mixture of one part calcium arsenate and ten parts lime or gypsum. This should be carefully mixed and applied lightly with a blower, as too thick an application will burn the leaves. Beetles usually infest the blossom ends, and the newly formed blossoms should be dusted until the plants are well established. See pages 102 and 103.

BLACK BEAUTY EGG PLANT
Early, for Northern planting

GREEN CURLED ENDIVE

KOHLRABI

## Dandelion

THICK leaf or cabbage variety. Cultivated for spring greens, is fast gaining favor. Unlike common sorts, almost double usual size.
Pkt., 25c; ½ oz., 40c; oz., 75c.

**GIANT ERECT.** An upright growing variety, very desirable. Pkt., 25c; ½ oz., 40c; oz., 75c.

**COMMON.** Pkt., 10c; ½ oz., 30c; oz., 50c.

## Egg Plant

**VAUGHAN'S IMPROVED NEW YORK PURPLE.** The highest type and most popular—entirely spineless. Plants grow low, stalky and branching, are early and almost continuous bearing; fruits are satiny smooth, rich purple color and large. **Sow Vaughan's seed.** Pkt., 10c; oz., 50c; ¼ lb., $1.50; lb., $5.50.

**BLACK BEAUTY.** Twelve days earlier than New York. In shape it is broad and thick; it is perfectly spineless and smooth; has beautiful, rich purple color and handsome lustre. Pkt., 10c; oz., 60c; ¼ lb., $1.75; lb., $6.00.

**FLORIDA HIGH BUSH.** Fruits are higher than others on the vine and not as subject to rot or blight, very uniform in size and good shippers. Pkt., 10c; oz., 60c; ¼ lb., $1.75; lb., $6.00.

**"NEAPOLITAN."** A prized delicacy in Europe, proved to be well adapted to American conditions. In size it averages 3 to 3½ inches in diameter by 6 to 8 inches long. It matures about 10 days earlier than the New York or Black Beauty. Its flavor is superior. Pkt., 10c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

## Endive

ENDIVE is a delightful autumn and winter salad. Sow seed from middle of June to the end of August. Frost improves the flavor.

**GREEN CURLED SUMMER.** Standard variety for fall and winter. Finely divided leaves make the plant appear mossy, and when centers are blanched it is most beautiful. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.40.

**GREEN CURLED WINTER.** Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.40.

**MOSS CURLED.** Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.40.

**EVER WHITE CURLED.** Very crisp. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.40.

**BROAD-LEAVED WHITE or ESCAROLLE.** Slightly curled. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.40.

## Fennel

**FENNEL, Florence.** An excellent legume with agreeable aromatic flavor, sweet taste and a delicate odor. Height of plant, 2 ft. Directions for culture and use given with each order. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.00.

## Garlic

**SELECTED BAVARIAN.** Lb., 30c; 10 lbs., $2.50. Postage extra. Write for latest market prices on quantities.

## Kale or Borecole

Greens for early fall, winter and spring. Sow seed about middle of June, later transplant to rows 2 to 2½ feet apart. Dwarf sort can be sown later.

**DWARF GREEN CURLED KALE.** Leaves curly as Parsley, tender and very fine flavor. Immense quantities produced in South find ready sales in the North. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**VAUGHAN'S EXCELSIOR MOSS CURLED KALE.** Plants grow 18 to 21 inches high and produce as many as 50 edible leaves to a plant. Leaves very early and unsurpassed in flavor. Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., $1.25.

**TALL GREEN CURLED.** Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**SIBERIAN.** Called "Sprouts" and "German Greens." Not so curly as Dwarf Green Kale. Plant dwarf, spreading and very hardy. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

HORSE RADISH

LEEK

## Sea Kale

**SEA KALE.** Ready for use earlier than Asparagus, and flavor suggests Celery. Its blanched stalks are cooked like Asparagus or the leaves used as greens. Sea Kale comes usually from seed, but can be grown from off-sets or root cuttings. Plant in rows 4 to 6 feet apart. Seedlings yield a crop third year. As soon as shoots show above the ground, blanch with earth, boards, sand, etc. until ready for use. Pkt., 15c; ½ oz., 35c; oz., 60c; ¼ lb., $1.75.

## Horseradish Sets

**HORSE RADISH (Maliner Kren).** Roots produce good Radish, fit for use in one season's growth. Plant roots in trench, pressing small end down, and cover with 3 to 4 inches of soil. Doz., 50c; 100, $3.00; 1000, $18.00.

## Kohlrabi

Sow in April or May, in rows, thin to 8 inches.

The globular fruits grow above ground, are stripped and cooked like Turnips, but are much sweeter.

**EARLY WHITE VIENNA.** White and tender. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.

**EARLY PURPLE VIENNA.** Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**SHORT-LEAVED EARLY ERFURT.** For forcing in open ground. White flesh, very tender, short leaves. Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., $2.75.

## Leek

Leek should always be transplanted. Use a dibber, set the plant deep in the hole and do not fill it up, but let the soil wash in. Leeks are cousins of the onions and their flavor is subtly different when used in stews.

**LARGE MUSSELBURG.** Enormous broad leaves, mild flavor. Good exhibition sort. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**BROAD SCOTCH or LONDON FLAG.** Hardy; a strong plant, with broad leaves. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

## Herbs

**ANISE.** Used for garnishing, seasoning and cordials. Pkt., 10c; oz., 25c.

**BALM.** Used for making Balm wine and tea. Pkt., 10c; oz., 50c.

**BASIL, Sweet.** The leaves are used for flavoring soups, stews and highly seasoned dishes. Pkt., 10c; oz., 25c.

**BENE.** The leaves immersed in water make a drink very beneficial in cases of dysentery. Pkt., 10c; oz., 35c.

**BORAGE.** Flowers excellent for bees. Leaves used in salads. The flower spikes can be used in cooling drinks. Pkt., 10c; oz., 25c.

**CARAWAY.** Seeds are used for flavoring. Pkt., 10c; oz., 25c.

**CATNIP or CATMINT.** Grown for bees, also for seasoning. Pkt., 15c; oz., 75c.

**CHAMOMILE (MATRICARIA CHAMOMILLA).** The dried flowers possess medicinal qualities. Prescribed as an emetic and vermifuge. Pkt., 15c; oz., 65c.

**CORIANDER.** The seeds are used for flavoring. Pkt., 10c; oz., 20c.

**DILL.** Leaves are used in pickles and for flavoring soups and sauces. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

**FENNEL, Sweet.** The leaves boiled are used in fish sauces and are beautiful for garnishing. The seeds are used for flavoring. Pkt., 10c; oz., 20c.

**HENBANE.** The growing plants are said to absorb malaria germs. Pkt., 10c; oz., 60c.

**HOREHOUND.** The leaves are used for flavoring and also in the manufacture of cough remedies. Pkt., 10c; oz., 50c.

**HYSSOP.** The tops and flowers are used for Hyssop tea. Pkt., 10c; oz., 25c.

**LAVENDER.** The leaves are sometimes used for seasoning, but the plant is chiefly grown for its flowers, which are used in making perfumes.
**Lavender (Lavandula vera).** True Lavender. Pkt., 10c; oz., 75c.
**Plants,** 3 for $1.00; doz., $3.50; 100, $15.00.
**Lavender (Lavandula spica).** Not quite so strong as above. Pkt., 10c; oz., 45c; ¼ lb., 85c.

**MARJORAM, Sweet.** The leaves and the end of shoots are used for flavoring and are dried for winter use. Pkt., 10c; oz., 35c.

**MINT.** For mint sauce and juleps. Pkt., 25c; oz., $3.50. **Plants,** 3 for 65c; doz., $2.50. By mail, add 5c each; doz., 20c. Strong pot plants.

**PENNYROYAL.** Leaves are used for seasoning. It also has medicinal properties. Pkt., 10c; ½ oz., 50c.

**PEPPERMINT.** The leaves and stems are used for flavoring. Pkt., 25c.

**PIMPINELLA (Burnet).** The young leaves are used as salad; their flavor resembles cucumbers. Pkt., 10c; oz., 35c.

**ROSEMARY.** The leaves are used for seasoning. Pkt., 10c; ½ oz., 75c.

**RUE.** For medicinal purposes; good for roup in fowls. Pkt., 10c; oz., 65c.

**SAFFRON.** Used for coloring and for flavoring. Pkt., 10c; oz., 45c.

**SAGE (Holt's Mammoth).** Plants attain height of 1 ft. the first season. **Plants,** 3 for 65c; 12 for $2.50; 100, $12.00. By mail, add 5c each; doz., 20c.

**SAGE SEED.** Leaves and tops are used for seasoning and stuffing. Pkt., 10c; ½ oz., 30c; oz., 50c.

**SUMMER SAVORY.** The leaves and young shoots are used for flavoring, especially for boiled string-beans. Pkt., 10c; oz., 25c.

**WINTER SAVORY.** Leaves for seasoning. Pkt., 10c; ½ oz., 30c; oz., 50c.

**TARRAGON (Artemisia Dracuncuelus).** The leaves, dried or fresh, are steeped in ordinary vinegar. Plants only. **Plants,** 3 for 85c; doz., $2.50. By mail, add 5c each; doz., 20c.

**THYME.** Used for seasoning; a tea is also made for nervous headache. Pkt., 10c; ½ oz., 40c; oz., 75c.

**WOODRUFF or WALDMEISTER (Asperula odorata).** Used in May Wine and also for perfuming clothes. Pkt., 10c; oz., 75c.

**WORMWOOD.** Beneficial for poultry. Pkt., 10c; oz., 45c.

# Leaf, Head and Cos Lettuces

## Every Garden Can Grow This Finest of Health Foods

Big Boston, Earliest Butterhead. Recommended for Home Gardens in the North, Market Growing in the South

### Health Value of Fresh Picked Lettuce

Calories per lb., 87. Vitamines A, B, C, D.
Proteins 1.2% Carbohydrates 2.9% Fats .3%

Minerals

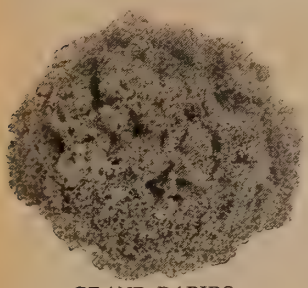
| | | | |
|---|---|---|---|
| Calcium | .043% | Chlorine | .074% |
| Magnesium | .017% | Sulphur | .014% |
| Potassium | .339% | Iron | .0007% |
| Sodium | .037% | | |

LETTUCE which has become a daily necessity on our tables, with the discovery of vitamines is a crop with which the home gardener may excel. Leaf lettuce grows in almost any soil, and since it may be eaten with relish long before it has matured, it usually supplies the first salad of the year. Leaf lettuce gives a maximum of the green leaves which are esteemed especially by dietitians for being rich in Vitamine C. Head lettuce is more difficult to grow, but success is sure if it be started indoors, so that plants may be set out at the time leaf lettuce is sown in the open ground; always provided that the head lettuce have soil which is light and warm, and heavily manured. Water is also essential to rapid and uninterrupted growth. The butter head types are best for early, and the crisp heads, such as New York, Iceberg and Mignonette for the warmer weather.

**For the Home Garden**—Big Boston and All Seasons of the butter heads; Iceberg and New York of the crisp heads, and Black Seeded Simpson, Grand Rapids and Prizehead of the leaf lettuces are recommended, with any of the Cos varieties, which will often succeed where the cabbage heads fail.

## Leaf Lettuce

**GRAND RAPIDS.** This home garden favorite, also extensively planted for hotbed or greenhouse growing, is a curly leaved lettuce of upright habit, permitting close planting. An excellent keeper and shipper. The leaves are light green, daintily curled, tender and crisp. The flavor is delicious. Our selected stock has been bred to a high degree of uniformity in type and season.



GRAND RAPIDS

**Vaughan's Extra Selected Stock**—Pkt., 15c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**Standard Stock**—Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**BLACK SEEDED SIMPSON.** The leaves grow large, the inner ones forming a semi-compact head; they are a handsome green beautifully crumpled, have fine quality, tender, crisp and sweet flavored. May be grown under glass, in cold-frame or open ground. Unsurpassed as a heat resister, and especially adapted to amateur gardeners.

**Vaughan's Selected Stock** — Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., $2.00.

**Standard Stock**—Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**EARLY CURLED SIMPSON.** A white seeded leaf lettuce of excellent quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**PRIZEHEAD.** A popular, large, loose heading sort. Leaves finely crumpled and fringed, outer ones shaded brown; very crisp, sweet and tender. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

BLACK SEEDED SIMPSON

## A Prize for Poultry Keepers

**NEW CHICKEN LETTUCE.** Here is a genuine Lettuce which will yield as much or more chicken or rabbit feed as any "greens" plant. When cut it starts at once to grow again. The leaves can be pulled off each stem like a kale. It sends up a stout stalk three or four feet high, loaded with leaves. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

## Head Lettuce

**NEW YORK OR WONDERFUL.** This is the variety grown in California and shipped the year around to eastern markets. It is the largest of all head lettuces often weighing two pounds. It matures slowly, first forming a conical head which becomes globular, it stands the hot weather well. Because of its size plenty of room must be given between plants. We offer the highly selected strain known on the Pacific Coast as No. 12. Pkt., 10c; oz. 25c; ¼ lb., 85c; lb., $2.75.

NEW YORK

**VAUGHAN'S ALL SEASONS.** In 1879 we introduced this distinctive variety. It is still a favorite. Heads are large, solid and handsome, leaves are grayish green, never spotted or brown; they are broad and thick and have decided buttery flavor, the inner leaves blanch beautifully. It stands hot weather well and is slow to run to seed. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**VAUGHAN'S BIG BOSTON.** With Southern gardeners who ship North, this is considered the best early large heading sort. Its earliness makes it valuable for home gardeners in the north. Large heads of bright green leaves, very tender. One of the best varieties for forcing.

**Vaughan's Selected Stock** — Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**IMPROVED HANSON.** Globe-shaped, large, well formed, firm head of broad leaves so compact that the inner ones are blanched almost white. The outside leaves are glossy green, the inside tender and sweet, and all crinkled and curled. For midsummer planting outdoors, this variety is superior resisting drought and heat. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**ICEBERG.** Extremely hard heading, finely indented leaves. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**MAY KING.** Very early variety. The outer leaves are tinged with brown; they fold close, permitting close planting in frames—tender yellow heart. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**WAYAHEAD.** As early as May King, but larger. The head is of golden yellow, and the outer leaves light green. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**CALIFORNIA CREAM BUTTER.** One of the best summer varieties., large solid heads, buttery flavor. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**UNRIVALED.** A light green strain of Big Boston. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.

**MAXIMUM OR IMMENSITY.** A heat resister and one of the largest, green outside leaves, yellow center. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**BLACK SEEDED BIG BOSTON.** An improved shipping strain of the Big Boston. In demand in Southern lettuce sections. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**MIGNONETTE.** A delicious, crisp, solid, small lettuce. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**SALAMANDER.** Resists heat. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.60.

**TENNIS BALL.** Black Seeded. One of the best standard sorts. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**TENNIS BALL.** White Seeded. (Boston Market.) A good forcer. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.60.

## Romaine or Cos Lettuce

THIS type of lettuce forms upright loose folding heads, and the inner leaves bleach white. It is usually preferable to tie up the heads to assist bleaching. Esteemed the finest of lettuces in flavor.

**EXPRESS COS.** A Vaughan introduction. The most dwarf and earliest of all. Delicious flavor. Self-closing. Pkt., 10c; oz., 20c; ¼ lb., 50c lb. $1.50.

**PARIS WHITE COS.** Grows to large size. Self-closing. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**TRIANON COS.** Similar to above, but grows whiter and matures earlier. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb. $1.50

EXPRESS COS

# Melons to Fit Your Growing Season

MILWAUKEE MARKET

MELONS are a long season crop requiring for their best development a sandy soil which quickly warms up, a season of 90 to 100 days growing weather, hot sun and ample irrigation. Though these conditions are best found in irrigated sections of the West, there is practically no region in the United States in which some variety cannot be successfully grown.

The list offered on this page includes all varieties of merit, and is so complete that gardeners living in every section of the country may find here a variety with which they can succeed. Seed must not be sown until the ground is warm, and in the North it will pay to start the seed in a hotbed or indoors in paper pots or in a piece of thick turf. Plant in hills, allowing ample room and thin out the plants to four in a hill when they begin to vine. The cucumber beetle may be kept off with Slug Shot or Pyrox and aphis must be killed with a nicotine spray.

**For the Home Garden**—The varieties which are known to succeed in your locality are recommended, as many conditions enter into success with melons. Milwaukee Market is especially valuable for the home garden, growing to a large size and possessing table quality which few melons equal. The Osage type is usually easier to grow than the Gem type for an amateur.

**VAUGHAN'S MILWAUKEE MARKET.** This seed we grow in Michigan. For a fine home melon and a market-wagon variety it has no superior. The skin is light green, fruits nearly round with slight sutures, flesh salmon, wonderfully sweet, with almost no stringiness. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**BENDER'S SURPRISE.** This is a large thick-fleshed heavily netted fruit somewhat resembling our Milwaukee Market. Its flavor is wonderfully sweet with almost no stringiness. It matures early and is an excellent home garden variety. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $1.75.

**HALE'S BEST.** An oval shape, heavy netted melon of exceptionally thick meat of salmon color. One of the best shippers. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**HONEY ROCK.** See Novelty pages 14 and 15. Pkt., 10c; oz., 35c; ¼ lb., 75c; lb., $2.25.

**VAUGHAN'S ORIGINAL OSAGE.** In heavy soils, where other sorts produce inferior fruits, Osage does well; in sandy soil it is at home. Seldom, indeed, is there a poor quality Osage; it holds its own rich flavor much longer than other sorts, and is best of all the red-fleshed.

**Selected Stock**—Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**Standard Stock**—Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**VAUGHAN'S EXTRA EARLY OSAGE.** Not as large as Vaughan's Original Osage, but at least ten days earlier and of equal quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**EARLY KNIGHT or Sweet Air.** Very popular around Washington, Baltimore and Philadelphia. Being a green-fleshed melon of superior flavor and correct size, is well suited to that region. It is 5 to 6 inches through and 7 to 8 inches long. The netting is good and, crated, it stands long-distance shipping. The flesh is thick, color dark green blending to light pink near the center. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**EXTRA EARLY HACKENSACK.** Ten days earlier than old "Hackensack," of which this is a selection. The melons weigh 4 to 10 lbs. each. Pkt. 10c; oz., 15c; ¼ lb. 45c; lb., $1.25.

### Health Value of Fresh Picked Melons

Calories per lb., 180.

| | | | | Minerals | | | |
|---|---|---|---|---|---|---|---|
| Proteins | .6% | Calcium | .017% | Chlorine | .041% | Iron | .0003% |
| Fats | 00% | Magnesium | .012% | Sulphur | .014% | Sodium | .061% |
| Carbohydrates | 9.3% | Potassium | .235% | | | | |

**VAUGHAN'S PAUL ROSE.** Another introduction of Vaughan's Seed Store, the result of crossing Osage and Rocky Ford. It is an ideal marketing melon, and does not break down in shipping. In season it is 10 days earlier than Osage. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**TIP TOP.** A melon we recommend to every lover of this luscious fruit and to every gardener who grows for the market. It is a yellow-fleshed melon of the very best quality. It is sweet, juicy, of finest flavor, edible to the very rind. A strong grower, and heavy yielder.

**Selected Stock**—Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**MONTREAL MARKET NUTMEG.** The largest of the nutmeg varieties. This melon is extensively raised near Montreal, being sown and grown in cold frames until ready to set out. Skin is dark green, flesh green. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.45.

HEARTS OF GOLD

**HEARTS OF GOLD.** The best salmon-fleshed Gem Melon. Introduced by Vaughan's Seed Store. Quality fine grained, not stringy and of the sweetest flavor. Size and shape—just right, so it may be served cut in halves. Flesh and color—deep orange, extremely thick. As a shipper—uniform, like "peas in a pod." Netting is ideal, heavy and close. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**HONEY DEW.** An old-time French melon imported by Vaughan's Seed Store for a melon specialist in Michigan; later found of good commercial value. The skin is perfectly smooth, of a delicate yellow. The flesh is thick and the color blends from a near white at the rind to emerald green at the seed cavity which is of medium capacity. The flesh is very sweet and juicy and possesses a peculiar honey flavor. In short season localities it should be started on sods in the hotbed, as it is several weeks later than the Rocky Ford. Honey Dew is best when quite ripe. Unlike other melons, it grows sweeter as it ripens after being picked. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**OKA.** This is a variety from Canada, of Hackensack shape—a cross between Montreal Market and Banana—pink flesh and small seed cavity. It was originated by Rev. Father Athanase, of the Trappist Monastery at LaTrappe, Quebec. It is recommended to home gardeners as a short season melon of excellent quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**GOLDEN CHAMPLAIN.** It is well netted, grows to a good size, is thick fleshed and very sweet. It is recommended for latitudes where seed must be sown after May 15, and a harvest is desired in August. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**BANANA.** Cucumber shape. Delicious odor. A novelty melon for the home garden. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**RITTENHOUSE SPECIAL.** A medium size, oval melon with prominent ribs, heavy netting, medium thick finely grained pink flesh. Its sweet, spicy flavor is present for some time both before and after maturity. Medium to early. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**VAUGHAN'S OSAGE GEM.** A real gem with salmon colored delicious flesh. The skin is heavily netted like the Rocky Ford and the luscious salmon-colored flesh is of the highest quality. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**EMERALD GEM.** The skin is smooth and deep emerald color, the flesh is thick and of delicate salmon tint. The vines bear early and are very prolific. A splendid home garden melon. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**MANGO MELON OR VEGETABLE PEACH.** Orange shaped, golden yellow flesh. Makes splendid mangoes, stuffed like Peppers. For sweet pickles, pies and preserving. Cooking directions on packets. Pkt., 10c; oz., 25c; ¼ lb., 75c.

## The Rocky Ford Type

**ROCKY FORD NETTED GEM.** Of the green muskmelons Rocky Ford is the recognized standard of excellence. We offer two grades of seed; Vaughan's Selected Stock which is saved from specimens of the highest class market melons, and Standard Stock saved from field-run melons from a crop in which all rogues, or untrue vines, have been discarded.

**Vaughan's Selected Stock**—Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**Standard Stock**—Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**POLLOCK, 10-25.** Salmon tint. Very uniform of highest quality; vigorous and early. Cuts with a golden center shading to a green at the rind. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.50.

**EDWARDS PERFECTO.** "Salmon-Fleshed Rocky Ford." The Perfecto has the deepest flesh, smallest seed cavity and more salmon color than any type of Rocky Ford shipping melon. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50. (Large growers write for quantity prices.)

OSAGE (Introduced by J. C. Vaughan)

KLECKLEY SWEETS

# Watermelons

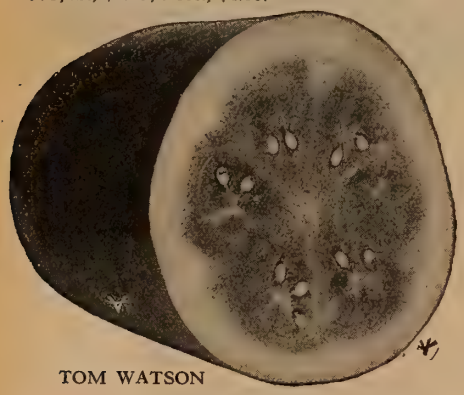
## Short Season Varieties Are Necessary in North

WATERMELONS may be grown under favorable conditions in the North though it requires 100 to 120 days to mature. Soil such as will mature good muskmelons is needed, with plenty of hot weather and no lack of water. Room for the vines to wander is required, preferably 8 to 10 feet between hills both ways. Avoid lifting the vines, and use only hand tools in cultivation.

**NEW WONDER.** The earliest high quality melon for the Northern garden. Similar to Kleckleys in shape, but larger and has harder rind. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**STONE MOUNTAIN.** See Novelty Pages 14 and 15. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**COLE'S EARLY.** The Northern States' favorite. As an early melon it is the standard of high quality. The flesh is rich, deliciously sweet and crisp. It is oblong-shaped, about 20 inches long, 12 inches through; skin mottled green, thin brittle rind, therefore not a good shipper. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.00.



TOM WATSON

**TOM WATSON.** There's delicious sweetness in every bite. The flesh is rich red, crisp and tenderly melting. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.00.

**KLECKLEY SWEETS.** This is an old established variety. In its culture the greatest care is always taken by us to retain the excellent qualities for which it has become famous. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25; 5 lbs., $5.50.

**SWEET SIBERIAN.** A very early variety of Russian origin. The melon is dark, of medium size, with yellow flesh of superb quality. Gardeners in the North will find the Siberian a treasure. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**NEW CHILIAN.** Attractive, of medium size, nearly round, skin deep green, faintly mottled and striped, stripe of brighter shade. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**IRISH GREY.** A mottled greenish grey, every melon very distinct. A fine shipper and the equal of any in sweetness and quality. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25; 5 lbs., $5.00.

**SWEETHEART.** Oval, light green mottled. Flesh bright red, very firm, yet tender. A fine shipper. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**VAUGHAN'S BLACK DIAMOND.** Very large, prolific, medium early, dark green skin, red flesh, blunt oval shape, fine shipper. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.15.

**CITRON.** For preserves. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**HARRIS EARLIEST.** Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**HALBERT HONEY.** A variety somewhat similar to Kleckley Sweets—of much darker color. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**ALABAMA SWEETS.** A Southern favorite. Oblong in shape, dark green skin, the seed is white. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**WINTER WATERMELON.** Size of Honey Dew, having its long-keeping qualities. Very early, prolific and excellent flavor. Pkt., 10c; oz., 20c; ¼ lb. 50c; lb., $1.50.

**OTHER GOOD WATERMELONS.** The following varieties are especially adapted to conditions in certain parts of the country. Ask market growers in your neighborhood for recommendation.

EARLY FORDHOOK
ICE CREAM OR PEERLESS
McIVER'S WONDERFUL SUGAR
RATTLESNAKE OR GYPSY STRIPED
FLORIDA FAVORITE
MOUNTAIN SWEET

Any of above: Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

# Mustard

**Leaves useful as salad or boiled like Spinach**

**CHINESE SMOOTH.** Large, light green, smooth leaves, borne well above the ground. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 85c.

**FLORIDA BROADLEAF.** Upright growing, deep green leaves, fairly smooth. Desirable for greens because of the ease of preparing and its pleasant pungent flavor. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 85c.

**GIANT SOUTHERN CURLED.** Large leaves often measure 14 inches; ready for use in about six weeks after sowing. Plants will continue to yield until frosty weather. Leaves boiled like spinach. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 85c.

**IMPROVED OSTRICH PLUME (Fordhook).** The handsomest of the mustards. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**WHITE.** Good for general use. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

# Tendergreen

**TENDERGREEN.** A new variety of greens, producing only a small root, but large dark green leaves having a small rib. It is the only vegetable that is ready for table or market in 21 to 25 days after planting, and will produce 8 to 9 crops a year. An exellent addition to the list of greens. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

# Grow Your Own Mushrooms

TO GROW a crop of Mushrooms in your own basement cellar or well-built outbuilding—is a home gardening effort worth making. While these are quickly salable, we are sure most of our readers would insist on eating their own crops! The location of the beds must be one where a temperature of 55 degrees to 65 degrees can be kept during cold weather. A barrel may be used in which to confine the manure for growing. We print and give FREE with orders for our Mushroom Spawn a leaflet, "How to Grow Mushrooms." We supply the highest quality of Mushroom Spawn to the largest commercial "caves" in the country, both from our Chicago and New York stores.

**Ask for Directions, How to Grow Mushrooms on Lawns and Pasturelands.**

**LAMBERT'S NEW PROCESS SPORE CULTURE SPAWN.**

No. 7 BROWN (Bohemian).
No. 8 CREAM (Columbian).
No. 9 WHITE (Alaska).

Price per brick (weight about 1 lb.), 35c; 5 bricks for $1.50; 10 bricks for $2.75; 25 bricks for $5.50.

**BOTTLE SPAWN.** Pure white, per bottle, $1.35; 3 bottles for $3.75.
If to go by mail add postage at parcel post rate. Each brick, 1 lb.; bottle, 3 lbs.

**MUSHROOM CARTONS.** Lb. size, $1.75 per 100; add postage at zone rate, 100 cartons weighing 11 lbs.

# Okra

OKRA pods are used in soups, stews and salads. It is a hot weather plant, but can be grown in the North much like corn, the plants being started indoors in paper pots. The pods should be gathered each day while still tender and pulpy.

**WHITE VELVET.** Produces pods larger than any other. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 75c.

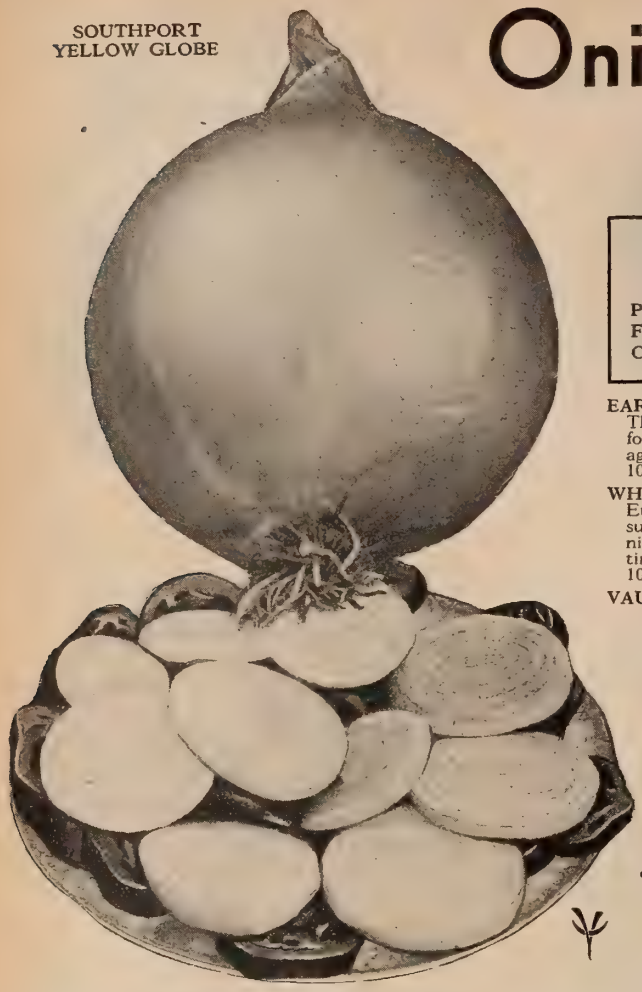
**TALL or PERKINS MAMMOTH.** The long pods, measuring 4 and 5 inches, are produced in great quantities. Pkt., 10c; ¼ lb., 25c; lb., 75c.

**DWARF.** Grows low but stocky and is very productive. Pkt., 10c; ¼ lb., 25c; lb., 75c.

**DWARF LONG POD.** Same as Dwarf but taller, pods longer. Pkt., 10c; ¼ lb., 25c; lb., 75c.

OKRA

SOUTHPORT YELLOW GLOBE



# Onion Seeds, Sets, and Plants

## Health Value of Onions

Calories per lb., 220. Vitamines A, B, C, D.

| | | | | Minerals | | | |
|---|---|---|---|---|---|---|---|
| Proteins | 1.6% | Calcium | .034% | | | | |
| Fats | 3% | Magnesium | .016% | Chlorine | .021% | Iron | .0006% |
| Carbohydrates | 9.9% | Potassium | .178% | Sulphur | .070% | Sodium | .016% |

**EARLY WHITE WELSH ONION.** The best winter bunching onion, forms no bulb. Plants can be propagated from seeds or divisions. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**WHITE BUNCHING ONION.** A European onion for early spring and summer bunching. Makes a very nice white tender stalk. Sow at same time as Ideal White Globe. Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., $2.75.

**VAUGHAN'S IDEAL WHITE GLOBE.** A strikingly handsome onion; very early, ripens evenly and is a fine keeper; the small, high-bred neck tells the story of quality; it is a true globe, pure white. Pkt., 10c; oz., 35c; ¼ lb., 90c; lb., $3.00; 5 lbs., per lb. $2.75.

**JAPANESE OR EBENEZER.** There has been a tremendous demand for this yellow skinned Onion for the growing of Onion Sets. Japanese Onion Sets produce a much larger tonnage of marketable Onions than does the old Strasburg or Danvers. Moreover, a smaller per cent of the sets run to seed. Ebenezer is a fine keeper, mild and well flavored. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1lb., $2.50.

**OHIO YELLOW GLOBE.** Another of Vaughan's success-winning, globe-shaped onions. It attracts attention by its uniform shape, beautiful color and fine size, in all of which it outclasses the old type Yellow Globe Danvers. Its finely bred neck, large size, solid flesh of mild sweet quality, uniform growth, heavy yielding and superb keeping quality have made it a favorite with all growers. High vitality. Pkt., 10c: oz., 25c; ¼ lb., 65c; lb., $2.25, by express over 5 lbs., per lb., $2.00.

JAPANESE OR EBENEZER

A leaflet listing a complete line of dish garden ornaments, dishes and plants for Japanese gardens, mailed free.

ONION SEED may be sown as soon as the ground can be prepared. If extra large onions are desired in Northern latitudes, seed may be sown in hotbeds or indoor boxes. It is best to transplant them into paper pots and allow their roots to become well established before setting them in the garden. By this method such varieties as Prizetaker and Ailsa Craig can be grown to extraordinary size. Amateurs can thus produce in their own gardens in the short Northern season, bulbs much larger than the so-called Spanish onions grown in the South and of the same mild flavor. It should be attempted only where the soil is favorable and irrigation possible. If onion seeds are sown in the open at the same time onion sets are put in the ground, the home garden may enjoy young onions from seed in midsummer, thinning out the rows for this purpose. If it is desired to mature onions for winter use and storage, one of the standard globe varieties should be chosen as they are the best keepers. The Southports, Danvers, Ohio Globe and Ideal Globe are good sorts.

**GOLDEN GLOBE.** See Novelty Pages 14 and 15. Pkt., 25c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

**SOUTHPORT YELLOW GLOBE.** The Vaughan strain of this onion is the most uniform on the market today. It is ball-shaped and not so elongated as to make any undersized specimens seem like picklers. Our Eastern seed bulbs are hand sorted by ourselves and the seed grown under our direct supervision. The ideal heavy yielding, long keeping Golden Yellow market onion.

**Eastern-Grown Seed**—Finest type; sold by us for many years. Pkt., 15c; oz., 30c; ¼ lb., 75c; lb., $2.50; 5 lb., per lb., $2.35.

**California-Grown Seed**—Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.25, by express over 5 lbs., per lb. $2.00.

**SOUTHPORT RED GLOBE.** In shape this onion is similar to our Southport Yellow Globe but a little deeper. The color is a rich dark red showing its years of Eastern breeding. California grown seed produces a lighter colored onion. A wonderful keeper with finely bred neck and a heavy yielder. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.25; by express over 5 lbs., per lb., $2.00.

**VAUGHAN'S SPECIAL YELLOW GLOBE.** ("MOUNTAIN" DANVERS.) An early Yellow Globe, slightly smaller than Southport. It produces a fine market onion. In some seasons early aphis damages the late onion crop but does not harm this variety, due to early maturity. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

## Flat and Miscellaneous Types

**EXTRA EARLY FLAT RED.** One of the handsomest red onions, and will ripen two weeks earlier than other strains. Pkt., 10c; oz., 35c; ¼ lb., 90c; lb., $3.00.

**BROWN AUSTRALIAN (Flat).** A very desirable onion of medium size, with amber brown skin and solid white flesh. It is early, a heavy yielder, and a long keeper; keeps well in warm climates. Pkt., 10c; oz., 25c; ¼ lb., 50c; lb., $1.50.

GOOD PICKLER FINE KEEPER

WHITE PORTUGAL

**WHITE PORTUGAL OR SILVERSKIN.** This beautiful white onion is a splendid sort for growing white onion sets, pickles and for early bunching green onions; for any one or all of these purposes it is extensively planted by growers who produce the varieties named as large white onions for fall and early winter use. Vaughan's White Portugal or Silverskin is a medium size bulb, flat shape, as shown in the illustration. It has fine mild flavor, and is best of the white onions for keeping. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

## Italian Onion Seed

**VAUGHAN'S PICKLING.** One of the best white onions for pickling; it is small, round, hard, crisp and tender, early and ripens uniformly. A very handsome sort with opaque white skin. Excellent for green onions. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**WHITE QUEEN.** Remarkable for earliness and very mild flavor, it is small and white-skinned. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**WHITE BARLETTA.** Beautiful waxy white. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**STRASBURG OR YELLOW DUTCH.** Large and more flat than Yellow Danvers, has white flesh of fine grain, mild, well flavored—a splendid yellow onion for sets. Our seed is very carefully grown, and has no superior. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**Bermuda Onion Plants started in Texas and sent North to grow on in your garden will give you backyard Bermudas with little trouble.**

ONIONS—Continued

**PRIZETAKER—AMERICAN GROWN.** Among large onions this one is exceptional for size and beauty; it is of the same type as the large Spanish onions, imported and sold for high prices. Vaughan's American-grown seed has become thoroughly acclimated through many years of very careful, painstaking culture. Prizetaker is a yellow globe that matures to great size under right conditions; it requires a long season and should be started early in hotbed. When properly ripened it is a good keeper. Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.25.

**LARGE RED WETHERSFIELD.** An onion of very productive habit and a fine keeper. The skin is deep purplish red, which covers a round, somewhat flattened bulb of purplish white flesh. Moderately fine grain and mild flavor. In poor soil it does best, growing a thinner neck than in strong soil. It is standard in its class, in the South and Southwest where immense quantities are grown for market. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**FANCY YELLOW GLOBE DANVERS.** This onion is a standard among the large types; it is early, almost true globe-shaped, beautiful yellow skin, pure white flesh, of very fine quality. It has a good size, and a fine thin neck. Vaughan's strain is so near to globe-shape that it passes for globe on the market, and being several weeks earlier than Southport Globe, it sells for the higher early market prices. The crop ripens uniformly at one time, and its keeping quality is excellent. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

LARGE, RED WETHERSFIELD.

**GIANT GIBRALTAR.** A variety similar to Prizetaker. We offer American-grown seed raised from bulbs produced from European seed. The strain runs slightly larger in size than the usual run of Prizetaker. Pkt., 10c; oz., 20c; ¼ lb., 75c; lb., $2.50.

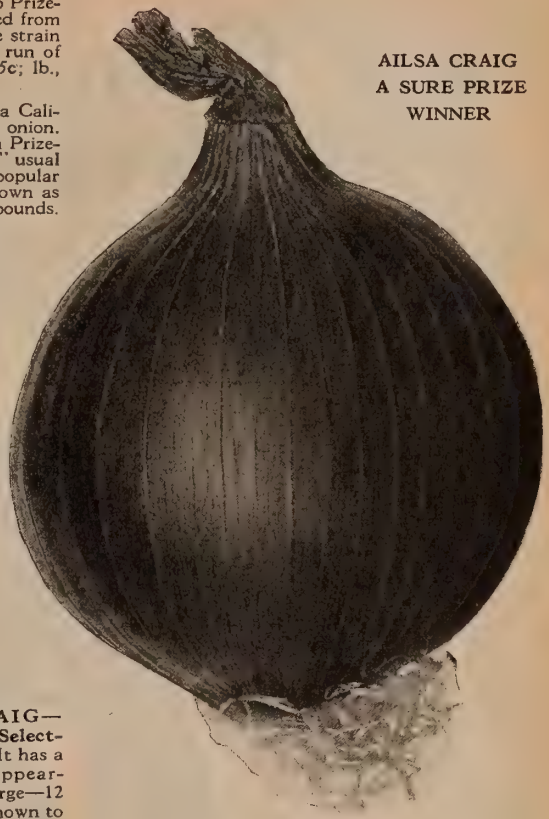
**RIVERSIDE SWEET SPANISH.** This is a California grown strain of the Spanish (Denia) onion. With us it grows larger than the American Prizetaker and does not produce the "stiff-necks" usual in the Spanish type. It is the most popular onion in Southern California and when grown as a specimen attains enormous size, 4 to 4½ pounds. Pkt., 15c; oz., 35c; ¼ lb., $1.00; lb., $3.50.

**RIVERSIDE WHITE SPANISH.** Size and shape same as Yellow Riverside. Pkt., 15c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

**YELLOW GLOBE DANVERS.** Same as Fancy Y. G. Danvers, except that it does not run as globe-shaped, but color, ripening and keeping are identical. Pkt., 10c; oz., 20c; ¼ lb., 70c; lb., $2.25.

**YELLOW FLAT DANVERS.** A standard onion with many splendid qualities; a valuable general crop sort. It is of a medium size, quite thick through, but flattened, has coppery yellow skin, and creamy white flesh which is mild and of pleasant flavor. It combines large yield with very even ripening quality. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**MAMMOTH SILVER KING.** Averages 15 to 22 inches in circumference and weighs 2½ to 4 lbs. It matures early and is uniformly large and of good shape; flat, but thick. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.



AILSA CRAIG
A SURE PRIZE WINNER

**AILSA CRAIG—Vaughan's Selected Stock.** It has a handsome appearance, being large—12 have been known to weigh 30 pounds—it has fine straw-colored skin; these qualities make it excellent for exhibition purposes, in which it is a successful competitor of large, imported Spanish onions. The shape is globular and it forms a fine thick neck which tells of its bred-in fine quality; it is, for a large onion, a splendid keeper; for eating raw it has no superior. It is mildly pungent in flavor, sweet and desirable. Pkt., 15c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**Back Yard Vegetable Seed Collection, 8 Varieties - 50c**

One packet each of the following varieties: Beans, Beets, Chard, Carrot, Lettuce, Peas, Radish, Parsley, 8 packets for 50c.

**CRYSTAL WHITE WAX.** This is a pure white flat onion, very popular in the South, especially in Texas. Also does well in the North. Very sweet. Teneriffe seed. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.

**YELLOW BERMUDA.** In Bermuda and Texas a great many carloads of these very large onions are produced annually; they are shipped North for early spring use. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50

EGYPTIAN WINTER ONIONS.

# Onion Sets and Plants

THE first home garden harvest in the spring is young onions from sets. If perennial sets are planted in the fall, a crop is reaped long before the first outdoor seeds have sprouted. Spring sets can be put into the ground as soon as it is able to be worked and in a few weeks the delicious young onions are ready to serve on the table. Plantings may be successively late into the summer, as long as the sets remain in good condition.

**WHITE BOTTOMS.** Pt., 20c; qt., 30c; ½ pk., 75c; pk., $1.25.

**YELLOW BOTTOMS.** Pt., 15c; qt., 25c; ½ pk., 60c; pk., $1.00.

**RED BOTTOMS.** Pt., 15c; qt., 25c; ½ pk., 60c; pk., $1.00.

**EGYPTIAN OR RED PERENNIALS.** These we sell only in the Fall. Planted then, they produce very early green onions. Pt., 25c; qt., 40c; ½ pk. 90c; pk., $1.50.

**WHITE MULTIPLIERS.** For First Early Spring Bunching Onions. They are pure silvery white, which runs well up the stem, very sweet and mild flavor, superior to green onions from other sets. There are usually several stalks from a single bulb. Pt., 25c; qt., 40c; ½ pk., 90c; pk., $1.50.

**SHALLOT'S OR YELLOW MULTIPLIERS.** Flavor much superior to ordinary onions. Pt., 15c; qt., 25c; ½ pk., 65c; pk., $1.15.

**GOLDEN GLOBE.** See Novelty pages 14 and 15. Sets, qt., 35c; 2 qts., 60c.

## Bermuda Onion Plants

These are new, and especially suitable for home gardens. Seed is sown early in Texas, and the plants are lifted, to be replanted in Northern garden, to produce sweet, mature onions of Bermuda quality. Ready April 1st. Per 100, 30c, post paid. Per 1000, $2.00, postage extra; wt., about 6 lbs.

**YELLOW POTATO ONION SETS.** Grown for young onions. Pt., 20c; qt., 30c; ½ pk., 75c; pk. $1.25.

**Pint and quart prices for Onion Sets shown on this page include Parcel Post prepayment through first three zones. For further zones add 5c per pound. In figuring cost remember each quart weighs 1½ pounds.**

WHITE ONION SETS.

# Your Own Peas Are Sweetest

ALASKA, EARLIEST, SMOOTH SEEDED

### Health Value of Fresh Picked Peas

Calories per lb., 454. Vitamines A, B, C, D. Proteins 7.0% Fats .5% Carbohydrates 16.9%

Minerals

| | | | | | |
|---|---|---|---|---|---|
| Calcium | .028% | Potassium | .285% | Sulphur | .063% |
| Magnesium | .038% | Chlorine | .024% | Iron | .0017% |
| | | Sodium | .013% | | |

PEAS are a cool-weather crop. They should be sown when the ground is ready to work, without delay. The smooth seeded sorts will stand cold and freezing weather without rotting in the ground, but they are not so tender or sweet on the table as the wrinkled kinds, which are more risky in the wet soil, but still worth taking a chance to get early. Dwarf peas are best suited for the garden where space is scarce. They are early and bear well. It is important to have rich soil, somewhat light, and to give plenty of water if a full crop is to be produced. It will pay to use a balanced commercial fertilizer in the row when the seeds are sown. Do not crowd the seed. It is better to sow in single rows, with two inches between the seeds, or in double rows, the rows six inches apart, and seeds two inches apart. Closer sowing will produce no greater crop. Peas must be cultivated faithfully and when the first crop is finished, they should be pulled up for they will bear no more.

**For the Home Garden**—Little Marvel, Laxtonian, Vaughan's Top O' the Morn and American Wonder are excellent dwarf varieties requiring no support and yielding well.

## Dwarf

**LITTLE MARVEL.** The most satisfactory pea in the average home garden. In season it is the same as Nott's Excelsior and American Wonder. The big point in its favor is that it remains in prime picking condition a week longer than the older sorts. Very productive, hardy, luscious and sugary. Vines 18 inches, pod dark green, well filled. Pkt., 10c; ½ lb., 25c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

LITTLE MARVEL

**NOTT'S EXCELSIOR.** Almost as early as the round seeded varieties—only 2 to 3 days later—but far superior to them in quality. Vines about 15 inches high, pods about 3 inches long, each containing 5 to 7 peas of good size, tender and delicious. The vines are vigorous and very prolific. It is easily grown, requires no support and is desirable for the home garden. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**LAXTON'S PROGRESS.** The earliest and by far the best of the large-podded, large-fruited wrinkled peas. Of all the varieties producing peas of equal quality, this is the heaviest yielding. It bears long pods, averaging one more pea to the pod than Blue Bantam, Hundredfold, Pioneer and Laxtonian. It is an improvement upon Laxtonian, which has hitherto been the finest of the dwarfs for table quality. Pkt., 10c; ½ lb., 25c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**IMPROVED STRATAGEM.** Long dark green pods, produced on vines 2 feet high, of strong, vigorous growth; matures mid-season; pods are filled with peas of immense size, and delicious sweetness and flavor. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**SUTTON'S EXCELSIOR IMPROVED.** Is a very fine first early dwarf pea, regarded by some as the best of the wrinkled sorts. It is very hardy; can be planted early; vines are 18 inches high, very prolific; pods are almost square at lower end, larger and broader than the usual dwarf pea, and dark green color. Pkt., 10c; lb., 40c; 2 lbs.,70c; 10 lbs., $2.25.

**LAXTONIAN.** The New Dwarf Gradus. This is another of Vaughan's Specials that has proved itself a winner for gardeners. It is extra early, tall, has large pods like "Telephone," which are filled with the finest flavored peas. Laxtonian is in season a few days later than the first earlies. It is really a Giant Podded Early Dwarf in a class almost by itself, for size, appear- and productiveness. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**AMERICAN WONDER.** Is an extra early dwarf wrinkled pea, of standard quality. The vines are dwarfer than Nott's Excelsior, being only 10 to 12 inches high. Pods are firm and well filled with peas of splendid quality. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**EXTRA EARLY PREMIUM GEM OR LITTLE GEM.** An early dwarfed wrinkled pea, not so upright in habit as "American Wonder," but the vines, which grow 16 to 18 inches high, require no support, and yield great quantities of pods, 3 inches long, filled with peas of fine quality. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

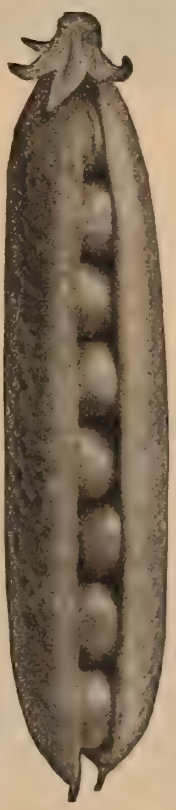
**VAUGHAN'S "TOP O' THE MORN."** This is one of the best of the new Dwarf Giant Podded Peas. The vines are of a deep green color, growing 18 inches in height. The pods are blunt-ended, like Nott's Excelsior or Little Marvel, and are produced in clusters all up the haulm, a week later than Laxtonian. Pkt., 10c; lb., 45c; 2 lbs., 80c; 10 lbs., $2.50.

**HORSFORD'S MARKET GARDEN.** Our strain of this sort is very popular with growers. It is later than "Advancer," grows taller, requires no brushing, and is a heavier producer. The pods are well filled with peas of fine quality. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**JUNO OR DWARF CHAMPION.** Main crop dwarf wrinkled pea, of hardy, vigorous and prolific growth. Long pods, each contain 7 to 10 peas of very best quality. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.50.

**DWARF TELEPHONE OR DAISY.** A mid-season maturing sort of merit; vines are dwarf and bear large, bright green pods, each contains 7 to 9 peas of finest quality. This is a splendid variety, of which we offer a high-class reselected stock. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs.,$2.25.

**VAUGHAN'S DWARF DEFIANCE.** Pea growers cannot afford to overlook this splendid main crop success; it is without a superior, a grand second early. The vines are vigorous, the pods dark green and immense in size and fullness, like "Telephone." The handsome pods are filled with peas that are sweet and rich flavored. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.



THOMAS LAXTON

## Medium Height

A HEAVIER yield without sacrificing quality is obtained from the varieties of peas which require some support. The varieties listed below grow to three feet high and should be given support of chicken wire, or brush between companion rows. The smooth podded sorts may be sown first, and if not allowed to mature too much will be found to be of good table quality.

**For the Home Garden**—Vaughan's Select Extra Early and Alaska for the smooth-seeded sorts and Gradus and Thomas Laxton of the wrinkled type are excellent varieties.

**GRADUS—VAUGHAN'S RE-SELECTED STOCK.** Gradus is the greatest of the wrinkled peas; it is large, early, and in flavor equal to the best wrinkled kinds. It is tender and should be planted in the warmest spot in the garden. Vines 30 inches, pods 4 inches long, beautiful green color, with 7 to 10 or more rich, tender peas in each. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**VAUGHAN'S SELECT EXTRA EARLY.** (First and Best) (Maud S.) Vines are 20 to 26 inches high, pods 2½ to 3 inches long, each having 5 to 7 peas. The delicious sweetness, rich flavor and tenderness are the qualities for which our strain is known. Seed white, round and smooth; crop ripens evenly and extra early. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**THOMAS LAXTON.** This is a selection of Gradus. The season is identical but the pods are square at the end and deeper green. Vines are 3 to 3½ feet high. A better yielder than Gradus. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**ALASKA—CALLED EARLIEST OF ALL.** Alaska and "Maud S." are in all but color the same; Alaska seed is bluish in color; it is standard for market and canning. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**THE AMEER.** Very popular with truckers in the South. The peas are smooth, 2 or 3 days later than Alaska, and the pods are almost twice as large. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**SURPRISE—The Earliest Pea of Quality.** In season two days later than Alaska. Being a wrinkled pea, it cannot be planted in soil so cold as smooth peas. the pods are of good size. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

# Tall Peas Yield Best

THE gardener who takes pride in his peas and whose space is unlimited will find the tall-growing sorts unequaled for length of season, heavy yielding and high quality. Support should be given, and they should be planted with plenty of room. Liberal fertilizing will be well repaid.

**For the Home Garden**—Improved Telephone and Alderman will give peas of a size and quality sure to win the envy of your neighbors and the prizes at the garden show.

**VAUGHAN'S IMPROVED TELEPHONE.** Of the tall-growing varieties of late peas. "Vaughan's Improved Telephone" is regarded by experienced and successful growers as the best sort for general purposes. Uniformly large pods, 5 inches or more long, filled with 8 to 9 delicious peas. Grows 4 feet high; is a main crop variety, and a heavy yielder. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**CHAMPION OF ENGLAND.** This is a late season tall pea. The vines grow about 5 feet high, are very vigorous and productive. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**ALDERMAN.** This mid-season pea is tall-growing of English origin, and a few days later than "Vaughan's Improved Telephone." Exceedingly vigorous and immensely prolific. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**EVERBEARING.** For late summer and autumn; very prolific variety. Pod about 3 inches long, with large peas of good quality. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.25.

**BLACK-EYE MARROWFAT (Late).** A great yielder of ordinary quality peas. Pkt., 10c; lb., 35c; 2 lbs., 60c; 10 lbs., $2.00.

**WHITE MARROWFAT.** Similar to Black Eye. Popular heavy yielder. Pkt., 10c; lb., 30c; 2 lbs., 50c; 10 lbs., $1.75.

## Edible Pod Peas

**(Cooked like String Beans)**

**MAMMOTH PODDED SUGAR.** A late, large sugar pod pea of finest quality. Vines 4 to 5 feet high. Pods 5 to 6 inches long. Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., $3.00.

**DWARF GRAY SUGAR.** Vines 16 inches. Pkt., 10c; lb., 40c; 2 lbs., 70c; 10 lbs., $2.50.

**Three tall-growing sorts to be planted at the same time to mature successively.**

**LAXTON'S PROGRESS**
**IMPROVED TELEPHONE**
**CHAMPION OF ENGLAND**

1 pkt., each of above, 25c, postpaid.
1 lb., each (3 lbs.) of above, $1.10. Exp. not prepaid.
2 lbs., each (6 lbs.) of above, $1.90. Exp. not prepaid.
10 lbs., each (30 lbs.) of above, $7.25. Exp. not prepaid.

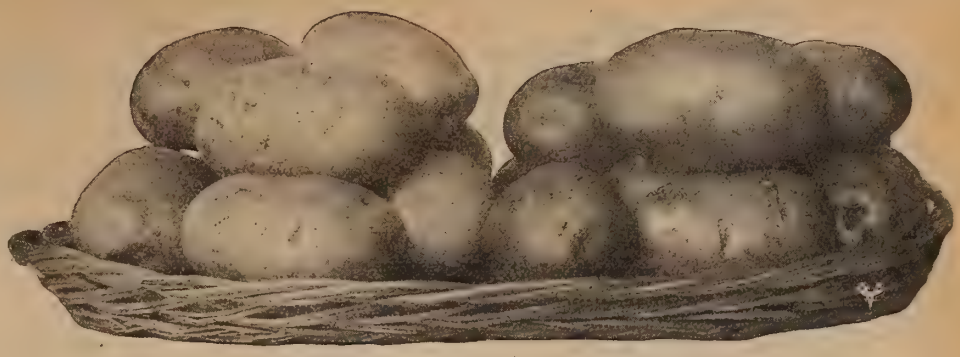
**Larger quantities of all Peas at 10-lb. rates.**

IMPROVED TELEPHONE

### Every Gardener Should Know

That Peas, Beans and Sweet Peas belong to the Legume family—plants that bear their seed in a pod. All legumes form a partnership at the roots with bacteria that are able to secrete nitrogen and give it to the plant. They form on the roots in colonies looking like lumps, called nodules. To stimulate these germs it is necessary to "inoculate" the seed. All agricultural authorities advise inoculation of legumes.

Garden Size, 25c



VAUGHAN'S IMPROVED EARLY OHIO

# Northern Potatoes

**Seed Potatoes Shipped from New York are Maine or Prince Edward Island Grown.**

**Certified Stock.** We offer Michigan and Minnesota certified stock inspected while growing by authorized state agents and found free from serious diseases and varietal mixture and from vigorous fields. Sorting and grading to No. 1 grade is also required. Stock that is not certified is grown from certified seed.

**The prices in this catalog represent values at the time this book went to press and are subject to market changes.**

Success with potatoes in the home garden requires a rich fairly light soil, not limed and free from fresh manure. Fertilizer strong in potash should be applied and spraying should be done thoroughly. The early varieties may be sown as soon as the soil can be prepared. The first spraying, with Bordeaux Mixture or Pyrox, should be given when the sprouts are a few inches high.

**For the Home Garden**—Early Ohio and Irish Cobbler are the best early varieties, the former in the East and the latter in the West. One of the rural type is recommended for the late crop.

**Certified Stock** of Irish Cobblers and Green Mountain. ½ pk., 40c; pk., 75c; ½ bu., $1.20; bu., $2.25; 100 lbs., $3.50.

**GREEN MOUNTAIN.** Late, maturing in 140 days. It is a drouth resister and makes remarkable crops on poor soils. A loose soil is recommended. In loam it produces tubers of large size and attractive appearance, white fleshed. ½ pk., 35c; pk., 60c; ½ bu., $1.10; bu., $2.00; 100 lbs., $3.00.

**IRISH COBBLER—EARLY HEAVY CROPPER.** An early of medium size, and in light soil maturing almost as soon as the smaller cropping Earlies. Its size, shape, good quality and appearance commend it. Our seed is grown in Red River Valley, Minnesota. ½ pk., 35c; pk., 60c; ½ bu., $1.10; bu., $2.00; 100 lbs., $3.00.

**EARLY ROSE.** Red skin kidney shaped, very early. ½ pk., 50c; pk., 90c; ½ bu., $1.50; bu., $2.75; 100 lbs., $4.25.

**VAUGHAN'S IMPROVED EARLY OHIO (RED).** A week to 10 days earlier than other strains of the same variety. The reason for this is not only in the great care with which our seed is selected, grown and housed, but it is produced under conditions which are the most favorable in the Red River Valley of Minnesota, the natural home of high-class potato seed. ½ pk., 50c; pk., 90c; ½ bu., $1.50; bu., $2.75; 100 lbs., $4.25.

**RURAL NEW YORKER, No. 2.** Very large, usually smooth, oblong, inclining to round, and rather flattened. Skin and flesh white; quality excellent, season intermediate. Tubers of great uniformity in size. Known everywhere as "Dusty" Rural. ½ pk., 35c; pk., 60c; ½ bu., $1.10; bu., $2.00; 100 lbs., $3.00.

**RUSSET RURAL OR PETOSKEY.** A superb late variety. Remarkable on account of its freedom from disease. It possesses an attractive russet skin and the tubers, which are white, are very regular in size and unsurpassed for cooking qualities. ½ pk., 35c; pk., 60c; ½ bu., $1.10; bu., $2.00; 100 lbs., $3.00.

**CARMAN No. 3.** A white, flat variety, which sets its tubers very close to the top of the soil, thus giving good yields in clay soil where other varieties fail. ½ pk., 35c; pk., 60c; ½ bu., $1.10; bu., $2.00; 100 lbs., $3.00.

## Sweet Potatoes

We offer Yellow Jersey (the most popular northern sort). Grown especially for seed. 10 lbs., $1.25; bu., $3.00; by express collect only.

# Pumpkins

SOW when the ground is warm and give the plants room to ramble. The partial shade of the sweet corn plot is ideal. A few hills will provide amply for pies and jack-o'-lanterns.

**VAUGHAN'S SMALL SUGAR PIE PUMPKIN.** Well known as the best pie pumkin. The fruit is small to medium size, with solid fine grained flesh, and a sweet, sugary, delicious flavor. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**VAUGHAN'S MAMMOTH PRIZE.** Specimens have grown to 200 lbs. Notwithstanding it is among the best pie pumkins. Flesh fine grained, sweet and tender. Requires a long season and plenty of room (one plant to a hill). Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**WINTER QUEEN OR WINTER LUXURY.** A quality pie pumpkin and the best Winter keeper. Nine or ten inches in diameter; its skin is a beautiful deep orange-yellow with a close netting. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**JAPANESE PIE.** Fine quality, good keeper. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.40.

**QUAKER PIE.** Pear-shaped. Rich flavor, good keeper. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**GOLDEN OBLONG.** Flesh yellow. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.50.

**SWEET POTATO.** Bellshaped. White flesh. Used for pies. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.50.

**LARGE TOURS OR MAMMOTH FRENCH.** Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.60.

VAUGHAN'S SMALL SUGAR PIE

**CALHOUN.** A fine pie variety. Pkt. 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.

**LARGE CHEESE.** Large, flat like a cheese box. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 75c.

**LARGE FIELD OR "BIG TOM."** The standard pumpkin grown in corn fields for a feeding crop. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

**CUSHAW WHITE OR CUSHAW STRIPED.** Popular Southern sorts; fine flavor. Either one, Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

MAGNUM BONUM

**Health Value of Fresh Pulled Parsnips**

Calories per lb., 294. Vitamines A, B, C, D.
Proteins 1.6% Fats .5% Carbohydrates 13.5%

Minerals

| | | | |
|---|---|---|---|
| Calcium | .059% | Chlorine | .030% |
| Magnesium | .034% | Sulphur | .036% |
| Potassium | .518% | Iron | .0006% |
| Sodium | .004% | | |

# Parsnips

PARSNIPS may be harvested at times when the garden has little else to offer. Let them remain in the ground over winter, and dig them during a thaw or when the spring thaw comes—they will be as sweet and tender as ever. A freeze is required to sweeten them. For the best results deep soil is needed, and fresh manure should not be used as it will cause the roots to divide.

**VAUGHAN'S MARROWFAT PARSNIPS.** The accompanying illustration tells the story of uniform good size, fine shape, clean, smooth skin, and general handsome appearance, which distinguishes this high-class variety. In richness of flavor it is unequaled. For exhibition purposes it is a winner. Pkt., 10c; oz., 20c; ¼ lb., 45c.

**MAGNUM BONUM.** A greatly improved strain of "Hollow Crown" Parsnip. As a money-maker for market men we recommend it. It is a heavy cropper, the roots are smooth, but not so long, though somewhat thicker than the original, which makes them easier to harvest. Pkt., 10c; oz., 15c; ¼ lb., 40c.

**HOLLOW CROWN, LONG SMOOTH.** (Abbott's Improved.) Smooth, large, tender and sugary; one of the best. Our strain is a good selection. Pkt., 10c; oz., 15c; ¼ lb., 35c.

**IMPROVED GUERNSEY.** An improvement over the parent, "Hollow Crown," than which it is much larger in diameter, but not so long. The roots are more easily gathered. This sort gives general satisfaction. Of excellent sugary flavor. Pkt., 10c; oz., 15c; ¼ lb., 35c.

**VAUGHAN'S NEW INTERMEDIATE.** This new sort does not require soil so deep for its cultivation as the older sorts. It is quite equal in quality to the older varieties although the roots are only one-half to two-thirds as long under ordinary conditions. On heavy or clay soil Intermediate is especially good. Roots smooth and handsome and easily harvested. Pkt., 10c; oz., 15c; ¼ lb., 40c.

# Parsley

PARSLEY should be sown early because it is very slow to germinate; and it is best to use radish seed mixed with the parsley seed to mark the rows.

Rich and mellow soil is desirable for best results When the plants are well up thin to 8 to 12 inches in the row. When the plants of the curled varieties are about three inches high, cut off all the leaves. New growth will be brighter and better curled.

The rooted parsley provides excellent flavoring for soups and stews,

**FERN LEAVED.** Leaves so nicely and delicately cut as to resemble the fronds of a fern. Good green color and nice flavor. Pkt., 10c; oz., 25c; ¼ lb., 50c; lb., $1.50.

**VAUGHAN'S CHAMPION MOSS CURLED.** In England this is a prize winning variety. Robust, compact plants are quickly produced, the leaves are so crumpled and curled as to have the appearance of curled moss, with rich, green color; it is quite hardy, slow to run to seed and may be grown in pots or window boxes. Pkt., 10c; oz., 25c; ¼ lb., 50c; lb., $1.50.

**VAUGHAN'S XXX PARSLEY.** The daintily curled leaves of delicate green, appetizingly fresh and beautiful, add zest and richness to substantial or delicate viands. It grows very dwarf in the garden—many of our customers plant it as a border. It also is valuable in the hotbed, greenhouse, or in pots in winter, taking small space. Vaughan's XXX Parsley was chosen after many trials and a careful inspection trip through Europe where the seed is grown. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**PLAIN or ITALIAN.** The leaves are not curled. However, the flavor is excellent and plant is very hardy. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**HAMBURG ROOTED or GERMAN.** The root resembles a small parsnip and is the edible part of this sort; used for flavoring soups. Our strain is of exceptional quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**DOUBLE CURLED.** A very fine dwarf, handsome green, curled variety. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

# Peppers Sweet or Hot

LIKE egg plants and tomatoes, peppers should be started indoors, as they take four to five months to mature. They are easy to grow, thrive in cool weather and will endure some frost. The plants should stand eight to eighteen inches apart in rows. They are constantly becoming more popular, both in salads and for use in cooking. A dozen plants will supply an average family.

**VAUGHAN'S GIANT MAGNUM DULCE.** This fine pepper has appropriately been styled the "Salad King." But it is not in salad form alone that it excels. The seeds having been removed it may be stuffed, either with dressing as used in fowl or with meat, such as ground steak with onions or other seasoning. Sliced and fried as egg plant, it is a delicious dish, or it may be eaten raw, it is so mild. It can be grown to immense size—seven inches long and 4 inches through—but when grown so large the yield is small. To get a large yield of medium sized peppers, pinch off the "king flowers," the first ones to open. Pkt., 15c; ½ oz., 40c; oz., 75c; ¼ lb., $2.50.

**WORLD BEATER.** A large sort, a cross between Chinese Giant and Ruby King, having the longer shape and earliness of the latter with the size of the former. Fruits 5 inches long by 3½ in diameter; flesh thick and mild; very productive and a good shipper. Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., $1.75.

**PEPPER, CALIFORNIA WONDER.** See Novelty Pages 14 and 15. Pkt., 20c; ½ oz., 40c; oz., 70c; ¼ lb., $2.25.

**NEW SWEET UPRIGHT SALAD.** Is an early, prolific, sweet, pepper; so mild it may be eaten raw. The bushes are of medium height, and bear the peppers upright, not drooping. The size being medium they are just right for stuffing and frying; the bright glossy green color, turns to a waxen red when ripe. Pkt., 10c; ½ oz., 40c; oz., 75c; ¼ lb., $2.25.

**HARRIS' EARLY GIANT.** This is the heavy yielder among the large peppers. It is also earlier than other large kinds. The plants are vigorous, 18 inches to 2 feet tall; and the peppers 3½ by 5 inches. Color, deep green turning to red; flesh thick and very sweet. Pkt., 15c; ½ oz., 40c; oz., 70c; ¼ lb., $2.25.

VAUGHAN'S XXX PARSLEY

HARRIS EARLY GIANT

**Health Value of Fresh Picked Peppers**

Calories per lb., 109. Vitamines A, B, C, D.
Proteins 1.1% Fats .1% Carbohydrates 4.6%

Minerals

| | | | |
|---|---|---|---|
| Calcium | .006% | Chlorine | .013% |
| Magnesium | .010% | Sulphur | .014% |
| Potassium | .139% | Iron | .0004% |

**CRIMSON GIANT.** An especially desirable sort for the Central States as it matures the earliest of all the large red sweet peppers. In habit the plant grows two and one-half feet high and bears a large quantity of fruits. The peppers are large, run even in both size and shape. The color is deep green when young and a rich red when ripe; flesh thick, sweet, and mild. Pkt., 10c; ½ oz., 45c; oz., 75c; ¼ lb., $2.50.

**CHINESE GIANT.** This standard variety is larger than "Ruby King," but not so large as "Magnum Dulce." It is very prolific for so large a pepper. The productiveness may be increased by pinching off the first or "king blossoms." The fruit grows 4 to 5 inches broad on top and of equal length, and quite uniform in size; the flesh is unusually thick, mild flavor and makes a very fine salad sliced and served like tomatoes. The color is green turning to glossy scarlet when ripe. Pkt., 20c; ½ oz., 45c; oz., 75c; ¼ lb., $2.50.

**HUNGARIAN.** A long, slender type of hot pepper much prized for canning. It is 1½ inches in diameter at the base and tapers to a point. The fruits are often 10 inches long, and are a pale green turning to a rich red at maturity. Pkt., 15c; ½ oz., 40c; oz., 75c; ¼ lb., $2.50.

**RUBY KING.** One of the most popular varieties, growing 4½ to 6 inches long, 3½ to 4 inches thick. The peppers are a bright ruby-red and are among the best sorts for pickles. Quite sharp in flavor. Pkt., 10c; oz., 45c; ¼ lb., $1.25.

**BULL NOSE, HOT.** A pungent very early pepper. Pkt., 10c; oz., 45c; ¼ lb., $1.40.

**PIMENTO.** Flesh extremely thick and very mild. Must be started early in the North to mature. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.00.

**LARGE BELL.** Large blocky fruit, usually mild. Pkt., 10c; oz., 45c; ¼ lb., $1.40.

**CAYENNE.** Long, red and very hot. Pkt., 10c; oz., 50c; ¼ lb., $1.50.

**VAUGHAN'S SWEET MOUNTAIN.** The fruit when young is a bright, deep green, without shade of purple; when ripe a handsome red. The habit of growth is strong and it is very productive; the flesh, though sharper than "Upright Sweet Salad," is very mild and thick. The peppers often grow 6x4 inches. Pkt., 10c; oz., 45c; ¼ lb., $1.50.

## Other Pepper Sorts

**NEAPOLITAN.** Early and productive. Flesh thick and mild. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.

**SWEET SPANISH MONSTROUS.** Very mild to the taste. Late maturing. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.

**GOLDEN QUEEN.** Pkt., 10c; ½ oz., 35c; oz., 65c; ¼ lb., $2.00.

**TABASCO.** Hottest of all. Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., $2.00.

**RED CHILI.** Good hot pickling. Pkt., 10c; ½ oz., 50c; oz., 75c; ¼ lb., $2.25.

# Radishes the Season Through

## Health Value of Fresh Pulled Radishes

**Calories per lb., 133. Vitamines A, B, C, D. Proteins 1.3% Fats .1% Carbohydrates 5.8%**

Minerals:

| | | | | | |
|---|---|---|---|---|---|
| Calcium | .021% | Potassium | .218% | Sulphur | .041% |
| Magnesium | .012% | Chlorine | .054% | Iron | .0006% |
| | | Sodium | .069% | | |

RADISHES supply the first home garden harvest in the spring, and winter radishes may be enjoyed as late as New Year. Quick growth is the secret of success. A rich, light soil is required. The globe and olive varieties grow faster than the long type, and turn pithy sooner; so they must be harvested promptly and will not enjoy hot weather. The long types grow more slowly and are slower to turn pithy, so they endure heat better. Winter radishes should be sown in June or later and allowed to develop in the cool, moist fall weather.

EARLY SCARLET GLOBE

**EARLY SCARLET GLOBE FORCING (F).** Vaughan's Glasshouse Strain. For hotbed and greenhouse forcing, and outdoor planting. Very early, crisp, mild and tender; rich, bright, scarlet in color, of uniform globe-shape. It is ready for the table in 25 days. For the home, plant every 10 days until into June; again end of August.

**Vaughan's Select Stock**—Pkt., 15c; oz., 25c; ¼ lb., 45c; lb., $1.25.

**Standard Stock**—Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**SCARLET TURNIP WHITE TIP.** Vaughan's Selected Stock. This radish is a table dainty, crisp, tender and sweet; it is turnip-shaped, bright scarlet color, with white tip and is a high-class strain for outdoor planting. It combines beautiful appearance with finest radish quality—appealing to the eye and palate.

**Vaughan's "Sparkler" Strain for Open Ground**—Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**Standard Stock**—Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 75c.

**SAXA (F).** This is a European variety which has become very popular in the United States. It is one of the very earliest radishes and slow to run to seed. The tops are very small, the radishes are round and bright scarlet. We recommend it for the first planting in the garden, and also for forcing in hotbed and greenhouse. Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., $1.25.

**EARLIEST WHITE TURNIP OR WHITE BOX (F.)** Good for forcing or open ground, tops are short and tap root thin. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.10.

**OLIVE CRYSTAL.** Those who like a sweet radish will find in this one that which is really ideal in a fine variety of this quality. This new sort matures early, grows a very small top and has a very small tap root. An added feature is that it may be planted early without running to seed. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.50.

**EARLY LONG SCARLET SHORT TOP.** A long, straight, smooth, red radish; it grows partly above ground; developing a long, tender crisp and sweet root. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

SCARLET TURNIP WHITE TIP

ICICLE, FINEST OF WHITES

**EARLIEST WHITE OLIVE (F).** Earliest of all radishes—matures in 15 to 18 days after sowing. This sort is pure white, oblong shape with small tops—can be planted close; a very tender radish. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.

**EARLIEST CARMINE TURNIP (F).** The best and quickest all-red turnip-shaped radish, matures in about 21 days. For forcing under glass it excells, and for outdoor planting in the home garden it is one of the best varieties. Crisp, sweet and tender, leaves very short. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**CRIMSON GIANT (F).** For forcing or outdoor planting. Although twice the size of other forcing sorts this does not get pithy or hollow; the skin is crimson, flesh is white, tender, crisp and sweet-flavored. Sow seed thinly to permit root growth. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**BRIGHTEST LONG SCARLET.** This is a home garden favorite; the body is brightest scarlet color, which blends downward to a long tip of pure white. Usually ready for the table in 25 days from planting. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 85c.

**VAUGHAN'S ALL SEASONS.** May be sown from spring to autumn and used at all stages of growth; a round scarlet radish. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.10.

**GIANT BUTTER.** See Novelty Pages 14 and 15. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**VAUGHAN'S 20-DAY (F).** Extra Early Olive-Shaped. The quickest Red Olive-shaped radish, matures 20 days after sowing; has attractive, bright scarlet skin, white, sweet, crisp and tender flesh. Leaves being short permits close planting. Fine for outdoor planting or forcing. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

**IMPROVED FRENCH BREAKFAST (F).** An excellent early olive shaped radish about 2 inches long, with slender tap root, deep red skin, white tip. Flesh is solid, sweet, crisp and tender, fine for the home garden. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 75c.

**ICICLE.** The finest white radish—long slender root which remains crisp and mild long after maturity. It matures early with short top, which permits close planting and forcing. Many of our customers say it is the finest radish they have ever grown. Plant every 10 days for succession. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**VAUGHAN'S CARDINAL FORCING (F).** Is a splendid marketing radish; of the Globe-shaped sorts it is the handsomest; it is larger and more evenly shaped and has also a richer red colored skin than Scarlet Globe and is ready 3 days earlier. Quality, for eating, firmness and flavor are excellent. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

**(F) Forcing Sorts**

**CINCINNATI MARKET.** A long red radish, short top. If your market uses a long sort try this one. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**EARLY DEEP SCARLET TURNIP.** An old standby. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**EARLY SCARLET GLOBE WHITE TIP.** Best and quickest of the white tips; fine quality. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**GOLDEN YELLOW SUMMER.** Smooth. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

## Summer Radishes

Grow larger than early radishes and remain in good condition longer. All of the following: Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**IMPROVED CHARTIER.** Somewhat resembling Brightest Long Scarlet. It is double the size and later; long scarlet tipped with white.

**LONG WHITE VIENNA.** Snow white, very brittle and crisp.

**WHITE STUTTGART.** A turnip-shaped, large white radish.

**WHITE STRASSBURG.** Larger size and thicker than Vienna. Very solid.

## Winter Radishes

**Do not sow these until the latter part of June**

**THE MUNICH.** The German knows this as the Beer Radish. Grows from 6 to 8 inches in length; broad at the shoulder, white thin skin; mild and delicious. Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.25.

BRIGHTEST LONG SCARLET

**Prices** of each of the following: Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.

**CALIFORNIA MAMMOTH WINTER.** Long, very large size.

**ROSE OR SCARLET CHINA.** Rose, medium size, fine keeper.

**CHINESE MAMMOTH OR CELESTIAL.** Immense size, flesh always crisp and mild.

**BLACK SPANISH, LONG.** Black skin and white flesh.

**BLACK SPANISH, ROUND.** Like Long Black, only round.

**SAKURAJIMA.** A Japanese radish of immense size. In shape it is oval with cream-colored skin and pure white flesh. The roots are cooked like turnips, but have no strong taste. Sow in May. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

Onion Sets, producing the succulent "Early Green Onion," is the one crop which offers quicker returns than radishes in the garden—page 30.

**Giant Butter is the largest early globe, and does not turn pithy soon.**

OLIVE CRYSTAL

# Rhubarb

**VAUGHAN'S MAMMOTH.** Vigorous and productive; stalks numerous; the large ones being fifteen inches long and fully one and a half inches wide. Price of Seed per pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**GOLIATH.** A popular red strain. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.50.

**RHUBARB ROOTS.** Set in spring they will furnish leaf stalks the following year. If to go by mail allow for postage, 1-year, 1 lb., 2-year, 1½ lbs.; 3-year, 2 lbs. See page 112 for zone postage rates. 1-year, each, 25c; 3 for 45c; 10 for $1.30. 2-year, each, 30c; 3 for 75c; 10 for $2.25. 3-year, each, 50c; 3 for $1.35; 10 for $4.00.

# Oyster Plant
## (Salsify)

THOUGH not as generally grown as it should be, this is, when cooked, a really delicious vegetable, surpassing in richness of flavor both carrots and parsnips. It acquires a decided oyster flavor after a good frosting. Roots for winter use should be lifted in the fall while those for early spring use may be left in the ground, but lifted before they start to grow. Salsify is boiled like parsnips or carrots, or after half boiling can be grated and made into flattened balls and fried like oysters.

**MAMMOTH SANDWICH ISLAND.** This variety is much more uniform in growth than the old standard "Long White" Variety; it is twice the size and weight; the roots are of superior quality and most delicate flavor. Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., $2.75.

**LONG WHITE SALSIFY.** Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., $2.75.

**SCORZONERA, OR BLACK SALSIFY.** Considered by many better than white salsify. Somewhat harder to raise, although cultivated in the same way. Pkt., 10c; oz., 30c; ¼ lb., 85c.

# Garden Sorrel

Is boiled and served like spinach, also delicious for soups. As the hot sun tends to increase its acidity, a Northern exposure is advisable. It should be sown in drills 18 inches apart. It is hardy, but the roots should be divided every four years. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $2.00.

# Swiss Chard

**"CUT AND COME AGAIN."** This vegetable gives maximum returns for little care and space; it yields a constant crop from July to winter. The leaves are used for greens the same as spinach or beet tops. Sow early in spring, in rows 16 inches apart, and thin out to 6 inches in the rows. The leaves grow very large, with broad, flat, pure white stems, and mid-ribs, which may be cooked like asparagus, or made into very good pickles. Cut the leaves off and new ones grow quickly. As it grows, thin out for use and keep clear of weeds. Our packages contain recipes for cooking. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c.

SWISS CHARD

**LUCULLUS SWISS CHARD** A new Moss Curled sort. Very large leaves. The mid-ribs are very broad and form a good substitute for asparagus during the summer months. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**LYON SWISS CHARD.** A new variety, selected especially for its broad mid-ribs and stems. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**PERPETUAL SPINACH BEET.** Very similar to "Cut and Come Again." The leaves are used for greens the same as beet tops. Sow early in spring. Cut the leaves and keep plants thinned out, from 6 to 8 inches in the rows. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

# Modern Spinaches

### Health Value of Fresh Picked Spinach

**Calories per lb., 109. Vitamines A, B, C, D. Proteins 2.1% Fats .3% Carbohydrates 3.2%**

Minerals

| | | |
|---|---|---|
| Calcium.....007% | Iron.....0036% | Sodium.....125% |
| Chlorine.....074% | Magnesium.....037% | Sulphur.....038% |
| | Potassium.....774% | |

SPINACH delights in cool moist weather. Seed should be sown at the earliest possible moment in spring in rows one foot apart and thinned to six inches in the row. It matures in 45 to 50 days and quickly runs to seed in warm weather. The Antvorskov variety, listed below, is most free from this tendency. Home gardeners have generally adapted Swiss Chard and New Zealand Spinach as a greens crop, as both may be cut many times and will produce a continuous crop until freezing weather in the fall. A fall crop of spinach may be sown in late July or August and will find the cool, moist autumn weather favorable for growth. The value of spinach in the diet has been scientifically established by the vitamine investigation.

**LONG STANDING SPINACH KING OF DENMARK. (Antvorskov)** In our trials this variety has been slower to run to seed than any other sort. Antvorskov forms quite large tufts (or rosettes) compact and low. The numerous leaves are extra large, broad and rounded exceedingly bushy, slightly crumpled and of a glossy dark green color. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 60c.

**PRINCESS JULIANA.** This is a new type of "Long Season" Spinach. The leaves are of good size, very dark green, well crumpled and thick. The first plants of Spinach to bolt to seed are the male plants. (Spinach is generally dioecious; i. e., there are male and female plants). This first bolting seed has been eliminated in this new race by the production of hermaphrodite plants, these plants seeding much later than male plants. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 60c.

**VAUGHAN'S GIANT FILLBASKET.** The very largest Early Spinach, the result of careful reselection. In Europe it holds first place in public favor. Our customers here have had great success with it and are planting it more extensively each year. Its broad, thick, dark green leaves are very crisp and tender and of delicately delicious flavor. Pkt., 10c; oz., 15c; ¼ lb., 20c; lb., 50c.

**VAUGHAN'S SPECIAL.** See Novelty Pages 14 and 15. Pkt., 10c; oz., 20c; ¼ lb., 30c; lb., 85c.

**VICTORIA SPINACH.** Remains in prime condition two to three weeks after other varieties, excepting "Vaughan's Triumph," have run to seed. It is of true Savoy type, dense foliage, broad, dark green leaves of best quality; a great heat resister Pkt., 10c; oz., 15c; ¼ lb., 20c; lb., 50c.

NEW LONG STANDING SPINACH "ANTVORSKOV"

**VIRGINIA SAVOY YELLOWS OR MOSAIC DISEASE RESISTANT.** A variety originated by the Virginia Truck Experiment Station, a cross between Resistant Bloomsdale Savoy and Manchurian. This is a cool weather variety, for winter in the South and fall in the North. The leaves have markedly the Savoy characteristics. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 60c.

**VAUGHAN'S TRIUMPH SPINACH.** Withstands hot weather longer than other sorts; it thereby increases the length of the season a month. It does not wilt or run to seed so quickly as other sorts. Its habit of growth is prostrate, rather than upright; the leaves are thick warted, and fine and tender when cooked. Pkt., 10c; oz., 15c; ¼ lb., 20c; lb., 50c.

**NEW ZEALAND SPINACH (TETRAGONIA EXPANSA).** While this is not a member of the Spinach family proper, it furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked. Do not sow seed until May 1st or when the soil is fairly warm. Plant in rows 3 feet apart and thin the plants to stand 2 feet apart in the rows. Soak the seed before sowing. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.00.

**BLOOMSDALE LONG STANDING.** Latest of the Long Standing Spinach introductions. Improvement was accomplished through the selection of hermaphrodite plants (bisexual), which run to seed much more slowly than the unisexual. This variety is of better quality than the Antvorskov (King of Denmark) having larger and Savoy type leaves. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 60c.

**BLOOMSDALE OR NORFOLK SAVOY-LEAVED.** Is a very hardy sort; the leaves are very thick and blistered, making it a fine shipper; it is a good standard size, and a great favorite with Southern truckers. Pkt., 10c; oz., 15c; ¼ lb., 20c; lb., 50c.

**EXTRA LARGE ROUND LEAF.** Large crumpled leaves. This is one of the best for early use, and if sown again in August is hardy enough for late autumn use.

**LONG STANDING.** Of compact growth with thick deep green leaves. Slow to seed.

**PRICKLY-SEEDED.** Very hardy; sow in fall; for late use.

**MONSTROUS-LEAVED VIROFLAY.** Quick, strong growth. N. Y. favorite.

**Price** of the above, except where noted. Pkt., 10c; oz., 15c; ¼ lb., 20c; lb., 50c.

# Tobacco Seeds

**BIG HAVANA.** A hybrid Havana. Oz., 45c; ¼ lb., $1.40; lb., $5.00.

**CONNECTICUT SEED LEAF.** Best adapted to climate of Middle and Northern States. Oz., 45c, ¼ lb., $1.40; lb., $5.00.

**BURLEY.** The popular Kentucky sort. Oz., 45c; ¼ lb., $1.40; lb., $5.00.

A leaflet listing a complete line of dish garden ornaments, dishes and plants for Japanese gardens, mailed on request.

# Newer Squashes and Marrows

SQUASH are growing in popularity with home gardeners. They must be sown in warm, rich soil in hills 8 to 10 feet apart for the vine varieties and 3 to 5 feet for the bush sorts. The squash borer is the principal enemy, and the best protection against it is to cover the vine with soil at several joints. It will take root where covered and limit the damage done by the borer. Vegetable Marrows are considered by many to be superior in flavor to egg plant if sliced when half grown and fried. All squashes may be baked and eaten with butter, in which form they often times are relished by persons who dislike them when mashed and boiled.

**Health Value of Fresh Picked Squash**

**Calories per lb., 209. Vitamines A, B, C, D.**
**Proteins..... 1.4% Fats..... .5%**
**Carbohydrates.. 9.0%**
**Minerals:**
**Calcium.... .024% Potassium.....180%**
**Magnesium. .012% Iron..... .0006%**
**Sodium..... .004%**

**ACORN, TABLE QUEEN, or "DES MOINES."** We can truly say that the height of Squash quality is still unknown to one who has not eaten half a Table Queen, baked and buttered. In size Table Queen equals a fair sized husked cocoanut, and a half, baked, serves one person amply. The shell is usually thin and it does not require over twenty minutes for baking or boiling. The color is dark green changing to bright golden after picking and storing. The meat is dry and mealy. It yields enormously—a few hills furnishing an ample supply for a good sized family. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

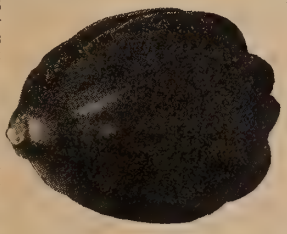


TABLE QUEEN

**NEW SQUASH "KITCHENETTE" (HUBBARD).** A small edition of the Hubbard Squash developed by inbreeding and introduced by the Minnesota Experiment Station. It was named "Kitchenette" because it is the smallest Hubbard. The squash average about 5 pounds. They are a glossy dark green, fully equal to any Hubbard for quality and keep as well in storage. In season they are two weeks earlier than the Hubbards. (**Cucurbita Maxima.**) Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**GOLDEN HUBBARD.** Fruits are of the same shape as Green Hubbard, and warted, but average one-half to one-third smaller in size. The skin is deep orange yellow and very attractive. Flesh is deep golden yellow, fine grained and delicious. (**Cucurbita Maxima.**) Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.40.

KITCHENETTE

**ORIGINAL HUBBARD SQUASH.** Not as large as Vaughan's original Chicago Warted Hubbard, but in shape and quality it is similar. The fruit has dark green skin, the flesh is bright orange color, fine grained, dry and thick. (**Cucurbita Maxima.**) Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.40.

**MAMMOTH YELLOW BUSH.** Like Mammoth White Bush. The fruit runs a little larger. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**VAUGHAN'S CHICAGO WARTED HUBBARD.** Vaughan's Chicago Warted Hubbard Squash has been bred to meet the requirements of a high-class article of this kind; fruits are of large size, rough skin, dark green in color, flesh is bright orange, fine grained, rich and dry. (**Cucurbita Maxima.**) Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**YELLOW SUMMER STRAIGHTNECK.** This is a very desirable summer squash to take the place of the regular crookneck type. It will pack much easier, will produce fully as heavily, is of the same general appearance as the Crookneck Yellow Summer, but has a heavier neck and gives more edible squash. It is altogether more desirable than the Crookneck for either home garden or market garden. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.00.

**'SWEET POTATO."** A valuable addition to the list of small squashes, is of fine flavor, becoming a popular feature of fall and winter menus. It is an improved Delicata, as sweet as Table Queen. The fruit averages 6 to 8 inches long and they are thick fleshed. When baked and served with melted butter it is a table delicacy of the first order. (**Cucurbita Pepo.**) Crop Failure.

**BANANA SQUASH.** One of the finest fall and winter squash. Of sweet potato quality, free from stringiness. Not hard as Hubbard to prepare but as good or better quality. 12 inches long, 6 inches in diameter, tapering at either end. Gray green color. (**Curcurbita Maxima.**) Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**COCOZELLE (ITALIAN VEGETABLE MARROW).** A bush summer variety. Fruits oblong, ribbed, 12-16 inches in length. Color dark green marbled with yellow and dark green stripes. Very fine flavor. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**VAUGHAN'S GIANT SUMMER CROOKNECK.** Our strain of this popular squash produces fruit nearly double the size of the old standard "Crookneck." The flesh is a rich golden yellow, the quality and flavor of which is the very best. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**VEGETABLES popularly known as** squashes and pumpkins are classified botanically as Cucurbita Maxima and Cucurbita Pepo. There are varieties popularly known as squashes in both botanical species, and the same is true of pumpkins. For those who wish to know the botanical status, the species is given in each description.

**VEGETABLE MARROW.** This is a most important vegetable in the English market, but little known in this country. The fruit is generally eaten when less than half grown, as the flesh is then very tender and marrowy. Our packages contain cultural directions and recipes for cooking. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.65.

**ZUCCA PERGOLA.** A vegetable marrow which grows 3 feet in length and 3 inches in diameter. Pale green in color. Used by Italians for slicing and frying like egg plant or baking, stuffed with meats. (**Cucurbita Pepo.**) Pkt., 15c; oz., 35c; ¼ lb., $1.00.

**NEW ITALIAN MARROW.** (**Cucurbita Pepo.**) When matured it is 2 feet long, 3 to 4 inches in diameter and very dark green. A bush type and very productive. There is nothing better for slicing in its early growth and if kept picked, will continue to bear until frost. A variety once tried will become a favorite in the home garden. Pkt., 10c; oz., 25c; ¼ lb., 75c.

**THE DELICIOUS—FOR QUALITY.** A squash of exceptional merit for table use. A fall and winter variety, but is fine in all seasons, though its best quality is not attained until winter. The fruit varies in shape and size, weight ranging from 5 to 10 pounds each. The rind is very thin, uniformly green, and the flesh is very thick and dark orange color. (**Cucurbita Maxima.**) Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $1.75.

**MAMMOTH WHITE BUSH.** Is an improved selection of the old "Early White Bush," the highly favored early summer squash. The newer sort is much larger and deeper, has fewer scallops, which saves waste, and is a heavier producer. Our strain is very select. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**YELLOW SUMMER CROOKNECK.** The old standard variety, very prolific, but smaller than "Giant Summer," a fine squash. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

**EARLY WHITE BUSH.** Very early. (**Cucurbita Pepo.**) Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**BOSTON MARROW.** Very popular for fall and winter; thin rind, orange color, yellow flesh, fine for pies, good keeper. (**Cucurbita Maxima.**) Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**MAMMOTH CHILI.** A popular exhibition sort. Specimens grow as large as 150 pounds. Rich orange yellow color. (**Cucurbita Maxima.**) Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.

**BLUE HUBBARD.** Similar to original Hubbard in shape and size, quality superior, an excellent winter keeper, having a blue gray shell. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $1.75.

**EARLY YELLOW BUSH.** A true bush, though of an earlier and smaller strain than the Mammoth. (**Cucurbita Pepo.**) Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**CHICAGO ORANGE MARROW.** Large as Hubbard, good quality, 10 days earlier than others, keeps as long. Season—Sept. to Jan. (**Cucurbita Maxima.**) Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., $1.25.

**PIKE'S PEAK OR SIBLEY.** A vigorous, prolific old standard, oval shape, tapering at blossom end, skin dark green. (**Cucurbita Maxima.**) Pkt., 10c; oz., 20c; ¼ lb., 45c; lb., $1.50.

**BUSH FORDHOOK SQUASH.** A new bush type of the original Fordhook, unequaled in quality and delicious sweetness by any variety, whether for summer or winter use. (**Cucurbita Pepo.**) Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., $1.50.

MAMMOTH WHITE BUSH

VAUGHAN'S GIANT SUMMER CROOKNECK

EARLIANA
BEST RED
EXTRA
EATLY

# Tomatoes of All Types and Flavors

## Health Value of Fresh Picked Tomatoes

Calories per lb., 104: Vitamines A, B, C, D.

| | | Minerals | | | |
|---|---|---|---|---|---|
| Proteins | .9% | Calcium | .011% | Chlorine | .034% |
| Fats | .4% | Magnesium | .010% | Sulphur | .014% |
| Carbohydrates | 3.9% | Potassium | .275% | Iron | .0004% |
| | | Sodium | .010% | | |

TOMATOES are an ideal home garden crop, thriving in a clay soil none too fertile and yielding heavily in small space. They should be started indoors and those unable to do this should purchase plants. The plants may be set in the garden when danger of frost is over. It is important to give them a quick start after transplanting by frequent watering and fertilizing. They should be sprayed with bordeaux mixture to prevent disease, and with arsenate of lead to keep off the tomato worm. Hot sun is needed to ripen tomatoes and plenty of water to keep them growing. If trained to stakes or trellises they will ripen sooner, though satisfactory crops are produced by allowing the vines to lie on the ground.

**For the Home Garden**—Earliana for the first crop. John Baer second early, and Stone for the main crop are the most popular and are of excellent quality. For those who prefer a larger size fruit, plant Ponderosa or Crimson Cushion.

**VAUGHAN'S SELECT EARLIANA.** Very popular Early Red. Vaughan's Earliana is the earliest large, smooth bright red tomato. In season it ripens with the earliest, and our strain shows few, if any, of the rough fruits found in large numbers in other early sorts, and among many strains of Earliana. This variety is compact in growth, with stout jointed branches; the vines yield well and the fruit is solid and of fine quality. Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., $1.25.

**JUNE PINK—THE BEST EXTRA EARLY PINK.** In many, perhaps the greater number of markets, a pink early tomato is most desired. This is the earliest of the pink varieties, and is similar in habit to the famous Earliana. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.50.

**NEW KING.** This striking variety was originated in the Chicago district and is the largest tomato that we know of. It is about the season of Ponderosa, but grows to nearly twice the size. Ripens uniformly from core to outer skin. These features make it an excellent addition to the home garden. Pkt., 20c; ½ oz., 40c; oz., 75c.

**VAUGHAN'S AMERICAN BEAUTY.** See Novelty Pages 14 and 15. Pkt., 25c; ½ oz., 40c; oz., 75c; ¼ lb., $2.50.

**OXHEART.** See Novelty Pages 14 and 15. Pkt., 20c; ½ oz., 50c; oz., 85c; ¼ lb., $3.00.

**MURRAY'S EARLY WONDER.** New, extra early scarlet fruited variety, exceptionally productive, nearly round, smooth, of excellent quality, good for home and market gardeners. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.00.

**NEW GLOBE TOMATO.** This new Globe or Ball-Shaped tomato is ideal for the home garden; it is excellent for slicing. The rich, juicy, tomato flavor gives a certain zest and joy in the eating. The fruits ripen with the second earliest. They yield a heavy crop and continue to bear until frost. The skin is a smooth, purplish pink; the flesh is firm and it has few seeds. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.

**JOHN BAER.** A remarkable new variety of the extra early red or scarlet type. Not quite so early as Earliana, though there are only a few days' difference, and John Baer yields a much heavier crop of larger, more uniform and more attractive fruits. Most profitable extra early sort. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.10.

**BONNY BEST.** A shade later than John Baer. Smooth, large and uniform fruit; yields well until frost. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.10.

**VAUGHAN'S NEW YORK.** A worthy sort to follow the early red sorts like Earliana and Chalk's Jewel. It is a second early red-skinned, firm-fleshed tomato of high quality which is at the same time of good size and attractive appearance. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.40.

**AVON EARLY TOMATO.** This is a scarlet-fruited variety of the very earliest class. It bears as quickly as Earliana, produces fruits of good size, round or slightly flattened, smooth and free from cracks and of fine quality. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.00.

NEW GLOBE EXCELS IN UNIFORMITY

**HUDSON VALLEY MAID.** This new potato-leaved variety, in trial, showed up remarkably well during a dry, off season, the potato-leaved sorts seeming to possess a hardiness that few of the ordinary leaved sorts have. It is second in season, of good size, smooth and bright red. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.

**GOLDEN PONDEROSA.** A yellow gem. This is a yellow Ponderosa equal in size to that magnificent variety. Sliced and served with the Purple Ponderosa, it makes a highly decorative and appetizing salad. Runs nearly true to type with a small percentage of mixed fruits. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.75.

**DWARF CHAMPION.** Owing to its dwarf habit and upright tree-like growth it is a great favorite It is of medium size, very smooth, purplish pink, symmetrical, flesh very solid. The vine is strong and stiff, requiring little support. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.30.

**ACME—Early (Purple).** Very valuable for market gardeners who ship or have a home market, and also for amateurs. The vine is large and very prolific, bearing fruit in clusters of four or five, early and continuously until frost. Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., $1.25; lb., $4.00.

**EARLY DETROIT (Purple).** The equal of any second Early Purple Tomato. Bears uniform, large, handsome, smooth fruit through the long season, yielding in the aggregate more marketable tomatoes than the popular Beauty which variety it most closely resembles. The fruit is firm and almost globe-shaped. Pkt., 10c; ½ oz., 30c; oz., 55c; ¼ lb., $1.60.

**BEAUTY (Purple).** Is the most popular of the large purple sorts. Vines large, vigorous and heavy bearers, fruit large, uniform, very smooth purplish pink skin; flesh light pink. Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., $1.25.

**CRIMSON CUSHION or BEEFSTEAK.** Is very large, round and regular; bright scarlet skin, solid flesh of best quality, seed cells small. Plants are very prolific, fine appearance. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.75; lb., $6.00.

**MATCHLESS.** Large, bright red, long keeping tomato. The solid fruit is produced on strong, vigorous, prolific vines. Very distinct. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., 90c.

**MAGNUS.** Potato-leaved; an early main crop strong growing vines, a heavy cropper. Fruit is globe-shape, and ripens evenly. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.40.

## Disease Resistant Sorts

**NORTON or WILT RESISTANT STONE.** Introduced by the United States Department of Agriculture. It is the result of work accomplished by Dr. Prichard to produce a variety resistant to Fusarium Wilt. It is a good variety in disease free soil resembling closely the Improved Stone, perhaps a little later than Stone. It is very prolific. The fruit is smooth and bright red. Pkt., 10c; oz., ½ 30c; oz., 50c; ¼ lb., $1.75.

**BREAK O'DAY.** See Novelty Pages 14 and 15. Pkt. 20c; ½ oz., 40c; oz., 75c; ¼ lb., $2.25.

**MARVELOSA.** Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., $2.00.

**MARGLOBE.** A second-early, red-fruited variety equally suitable for trucking or canning. As early as Bonny Best, produces, large smooth, meaty, globular, red fruits which ripen uniformly and are relatively free from cracks. They make a splendid canned product and first class pulp. Pkt., 10c; ½ oz., 30c; oz., 60c; ¼ lb., $1.75.

NEW KING IS LARGEST OF ALL

TOMATOES—Continued

**IMPROVED NEW STONE.** "King of the Reds." The very best of the main-crop varieties. For yield, size and appearance, we have seen no finer strain than ours. The smooth skin, small core, fine-grained flesh with little acidity, delight the eater and give satisfaction to the grower. Canners plant it for their main crop and market-gardeners find it their most profitable sort. Pkt., 10c; ½ oz., 25c; oz., 35c; ¼ lb., $1.00.

**CHALK'S EARLY JEWEL.** The original large smooth extra early red, much planted by canners in the Northern States—many still prefer this to Bonny Best. Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.10.

**GOLDEN QUEEN.** Golden yellow. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.30.

**GULF STATE MARKET TOMATO.** This globe-shaped purplish pink tomato was developed from Early Detroit and is as early as that variety. It is said to be especially adapted to the Gulf states and California. The fruits are large, showing little depression around the stem, and free from cracks. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.50.

**DWARF STONE—THE LARGEST DWARF TOMATO.** This is the largest Dwarf tomato; it resembles "Dwarf Champion," but is of stronger growth and more erect. In shape and size it is similar to "Improved New Stone." The fruit is red, and specimens weighing ¾ pound are not uncommon. Dwarf Stone is almost as early as "Dwarf Champion," and the fruit is the size of the last named sort. Fruit ripens evenly, is solid, free from cracks and of excellent quality. Amateurs find Dwarf Stone a splendid sort, because of its dwarf habit and robust growth. Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., $1.40; lb., $5.00.

**PONDEROSA—THE GIANT TOMATO.** Of the large fruited varieties, this one is a gem. The vines are strong in growth, and when planted in good soil and pruned to a single stem, the fruit reaches one pound in weight. Tomatoes grow in beautiful clusters. The fruit is mostly oblong in shape, usually ribbed, is deep purple color, has solid flesh of sweet flavor, and small seed cells. Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.75; lb., $6.00.

PEAR TOMATOES

## Small Fruited Tomatoes

**Very Desirable for Pickles and Preserves.**

**NEW GRAPE OR CLUSTER, NAPOLEON.** This is the best of the so-called "dessert" tomatoes which are eaten whole. Immensely productive; sometimes 40 to 60 of the small fruits fully developed in one cluster. Pinch off some of the blossoms, if increased size is wanted. The flavor is delicious. Pkt., 25c; ½ oz., 50c; oz., 85c.

**RED CURRANT.** Very small. Pkt., 10c; ½ oz., 40c; oz., 75c.

**RED CHERRY.** Small fruit, bright, scarlet. Pkt., 10c; ½ oz., 40c; oz., 75c.

**Prices** of the following: Pkt., 10c; ½ oz., 40c; oz. 75c.

**TWO PEACH TOMATOES.** Peach shape and color. Red or Yellow.

**YELLOW PLUM AND RED PLUM.** Fruit about 2 inches long. 1 inch through; the one is lemon-yellow the other plum-red.

**YELLOW AND RED PEAR.** Distinct shape.

**GROUND CHERRY, HUSK OR STRAWBERRY.** The small yellow fruit is enclosed in a husk. It is very sweet; prized for eating, preserving and making pies.

## Forcing Tomatoes

**We provide choicest strains obtainable for greenhouse work.**

**BONNY BEST.** The most popular American variety, for forcing. Forcing strain. Pkt., 25c.

**FROGMORE SELECT.** Almost round, small seed cavity, bright red. Pkt., 25c.

**LISTER'S PROLIFIC.** Latest popular English sort. Pkt., 25c.

**STIRLING CASTLE.** Small size, uniform and very productive. Pkt., 25c.

**LORILLARD.** One of the best known and popular kinds. Pkt., 25c.

**FILL BASKET.** One of the best of the English Forcing varieties. Vine heavier than Sunrise. Fruit set in clusters of three to five. Color, scarlet; heavy yield. Pkt., 25c.

PURPLE TOP WHITE GLOBE

# Turnips for the Table

### Health Value of Fresh Pulled Turnips

**Calories per lb., 178. Vitamines A, B, C, D. Proteins 1.3% Fats .2% Carbohydrates 8.1%**

**Minerals:**

| | | | | | |
|---|---|---|---|---|---|
| Calcium | .064% | Potassium | .338% | Sulphur | .065% |
| Magnesium | .017% | Chlorine | .041% | Iron | .0005% |
| | | Sodium | .056% | | |

TURNIPS are cool weather plants and thrive best in spring and fall. For early use seed should be sown as soon as the ground can be prepared and will give roots large enough for the table in six to ten weeks. For the fall crop seed should be sown June to August and the plants will grow until freezing weather, when they should be harvested and stored. Rutabagas after a touch of frost are a delightful addition to the winter diet. To avoid maggots, it is best to sow turnips on different soil each year.

A loose and fertile soil is needed to mature early turnips rapidly, and avoid a bitterness which develops when growth is checked. The plants should be thinned to stand three inches apart, and then the half grown roots should be harvested alternately.

**FOR THE HOME GARDEN**—Any of the table turnips and rutabagas listed on this page will be found satisfactory.

**PURPLE TOP WHITE GLOBE.** Originated from "Purple Top Flat Turnip," is extensively planted and popular for its fine qualities. The flesh is firm, fine grained, sweet and rich flavored; it is of good size, globe-shaped, fine appearance, a good producer and fine keeper. Splendid for table—tiptop for stock. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c; 5 lbs., $2.75 (by express).

**PURPLE TOP STRAP-LEAVED.** Is a table variety, fine, tender and deliciously flavored. It is a week later than "White Milan." It is broad shaped, medium size, white flesh, fine grained, splendid quality. Top is dark red or purple, elsewhere white, has few leaves, upright in growth, fine keeper. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c; 5 lbs., $2.75 (by express).

**EARLY WHITE MILAN** is the earliest turnip, but can be used Spring or Fall. The skin is smooth, snowy white, has a polished appearance; medium size, white, tender, sweet. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

**GOLDEN BALL or ORANGE JELLY.** Medium size, globular table turnip. Season early. Flesh yellow, sweet. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

**YELLOW STONE.** Popular variety, yellow flesh, round shape, somewhat flattened; excellent quality for table or market. Good for stock. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

**EARLY SNOWBALL.** Small, white, grows quickly, splendid table quality. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

WHITE FLAT DUTCH

**SEVEN TOP.** A variety much grown in the South for the tops, which are used as greens. Pkt., 10c; oz., 15c; ¼ lb., 20c; lb., 50c.

**LARGE YELLOW or AMBER GLOBE.** Fine quality and sweet. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

**EXTRA EARLY PURPLE TOP MILAN.** An excellent medium size turnip, almost as early as White Milan, smooth white surface, purple top, flat shape, white flesh—its growth is very uniform and quality the best. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00.

## For Stock

**COW HORN or LONG WHITE.** Grows nearly half way out of the ground, carrot-shape, usually slightly bent; pure white. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

**WHITE EGG.** Quick growing, egg-shaped, perfectly smooth, pure white variety, grows half way out of ground with small tops and rough leaves; never has rank, strong taste, but the sweet, firm flesh is always mild, rich and fine flavored. Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 65c.

# Table Rutabagas

**VAUGHAN'S IMPROVED AMERICAN PURPLE TOP** is a fine strain of Purple Top. Largest size, best shaped variety, small neck, smooth skin; good cropper and keeper. One of the most profitable to grow, on account of its great yield of large solid roots, which make excellent winter feed for all farm stock. Excellent table quality. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

**BANGHOLM DANISH.** Yellow flesh, purple top with small neck. This variety has excellent table quality and is recommended for home gardeners. Danish pedigree seed. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

**CARTER'S IMPERIAL.** Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

**LAING'S GARDEN RUTABAGA.** Short top, well shaped, medium root. Purple skin, yellow flesh. A splendid winter keeper, delicious after first few November frosts. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

## Swedes and Rutabagas for Stock

**MONARCH.** A stock crop for early feeding, oblong shape, yellow flesh, fine grain, good flavor, superior in quality and weight. Produces 5 to 7 tons per acre more than any other Swede. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

**RHODE ISLAND ROCK.** Great improvement on White French Turnip made after years of selection by a Rhode Island market gardener. Three weeks earlier than any turnip of its class; can be planted later to follow peas, corn, beets, etc. Very hardy, solid pure white flesh, fine grained, brittle and sweet. Excels as a keeper. Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., $1.00; 5 lbs., $4.50.

# Perennial Seeds for Rock Gardens

7002 **ACAENA Glauca.** Silvery blue foliage, for carpeting and rock steps. Pkt., 25c.
7003 **Microphylla.** Small-leaved, brownish carpet foliage. 2 in. Pkt. 25c.
7051 **ALLIUM Pulchellum.** Brilliant, loose clusters of lilac-red flowers. 16 in. August. Pkt., 25c.
7055 **ALYSSUM Saxatile Compactum.** Golden yellow. 9 in. June. Pkt., 10c.
7056 **Saxatile Sulphureum.** Sulphur yellow—9 in. June. Pkt., 15c.
7090 **ANEMONE Pulsatilla.** Violet lilac—12 in. April-May. Pkt., 10c.
7100 **Sylvestris.** White—12 in. April-June. Pkt., 15c.
7116 **ANTIRRHINUM Asarina.** A very free-flowering, creeping snapdragon for sunny rock gardens. Color, cream. Pkt., 25c.
7119 **AQUILEGIA Alpina.** Blue, 12 in., April-July. Pkt., 15c.
7195 **ARABIS Alpina.** White, 6 in. Pkt., 10c.
7197 **Alpina Rosea.** Vivid rose. 8 in. Pkt., 35c.
7210 **ARMERIA Formosa.** Red, 24 in., early summer. Pkt., 10c.
7211 **Formosa Hybrida.** 24 in., early summer. Pkt., 15c.
7218 **Laucheana.** Rosy crimson. 6 in., early summer. Pkt., 10c.
7219 **Maritima.** Lilac rose. 6 in., early summer. Pkt., 15c.
7214 **ARENARIA Montana.** White, 12 in., June-August. Pkt., 25c.
7222 **ASPERULA Odorata.** White, 9 in., early spring. Pkt., 10c.
7226 **ASTER Alpinus, Goliath.** Soft blue, large, 10 in. Pkt., 20c.
7227 **Alpinus, Nixe.** Light blue, star shaped, 12 in. Pkt., 15c.
7228 **Subcoeruleus.** Light blue. 15 in. Pkt., 20c.
7230 **AUBRIETIA.** Large flowering hybrids, 6 in., spring. Pkt., 25c.
7231 **Bougainvillei.** Light violet purple, 6 in., spring. Pkt., 25c.
8403 **AURICULA. Mixed** colors. 6 in., spring. Pkt., 25c.
7257 **CALAMINTHA Alpina.** Blue, 6 in., May and June. Pkt., 35c.
7256 **CALLIRHOE Involucrata.** Trailing plant large crimson flower. Pkt., 15c.
7260 **CAMPANULA Carpatica.** Blue, 9 in., July-August. Pkt., 10c.
7265 **Carpatica Alba.** White, 9 in. Pkt., 10c.
7340 **Pusilla.** Light blue bells, very free blooming, 4 in. July. Pkt., 25c.
7341 **—Alba.** Same as above, but pure white. Pkt., 25c.
7366 **Rotundifolia.** Blue, 12 in., spring. Pkt., 15c.
7361 **Turbinata.** Blue, 6 in. spring. Pkt., 20c.
7362 **—Alba.** White, 6 in., spring. Pkt., 15c.
8080 **CANDYTUFT Sempervirens.** White, 12 in., June-July. Pkt., 15c.
7435 **CERASTIUM Tomentosum** (Snow in Summer). Silvery white foliage, white flowers, 4 in., spring. Pkt., 15c.
7482 **CONVOLVULUS Mauritanicus.** 2 in. Blue white throat. Pkt., 15c.
7492 **CORYDALIS Cheilanthifolia.** Fern-like foliage, golden-yellow flower spikes. 8 in. April-October. Pkt., 25c.
7493 **Lutea.** Gray-green foliage, golden-yellow flowers, in bloom all summer. Pkt., 25c.
7499 **CRUCIANELLA Stylosa.** Light red, 18 in., July. Pkt., 15c.
7498 **CYCLAMEN. Europaeum.** The well known red flowering Alpine violet. 4 in. August-September. Pkt., 50c.
7576 **DIANTHUS Allwoodii Alpinus.** Perennial Dianthus flowering the first year from seed. It is only four to six inches high, has single and semi double flowers and contains all the Dianthus colors. Is a perfect gem for the rock garden. Pkt., 50c.
7580 **Caesius.** Flesh, 1 ft., July. Pkt., 25c.
7582 **Deltoides.** Rose, 8 in., summer. Pkt., 25c.
7586 **Neglectus.** Fiery red, 6 in., May-July. Pkt., 50 seeds, 25c.
7625 **Plumarius** (Clove Pink). Vaughan's Special Mixture 6 in., summer. Pkt., 25c.
7609 **—Spring Beauty.** Double giant-flowered grass pinks, carnation-like in form and size and with a beautiful range of color. Very fragrant. Pkt., 25c.
7776 **DODECATHEON MEADIA.** (Shooting Star). 1 ft. An American native wild flower, flowers lilac. Pkt., 25c.
7791 **EDELWEISS.** White, 12 in., early summer. Pkt., 25c.
7794 **ERYSIMUM Pulchellum.** Yellow, 6 in., May-July. Pkt., 15c.
7806 **EUPHORBIA Polychroma.** 1 ft., flower leaves yellow. Pkt., 25c.
3320 **FORGET-ME-NOT Alpestris.** Blue, 4 in., May-June. Pkt., 10c.
3330 **Alpestris Rosea.** Pink, 4 in. Pkt., 10c.
8250 **Ruth Fisher.** Sky blue, 6 in., May-July. Pkt., 25c.
7857 **GLOBULARIA Trichosantha.** Dark blue, 12 in. Pkt., 20c.
7862 **GYPSOPHILA Repens.** White, 6 in., summer Pkt., 15c.
7906 **HELIANTHEMUM Mutabile.** Pale rose, changing to lilac and white, 12 in. June-Aug. Pkt., 10c.
7940 **HEUCHERA Sanguinea.** Crimson, 30 in., June. Pkt., 25c.
7943 **Sanguinea Hybrida Grandiflora.** Mixed colors, 30 in., June. Pkt., 35c.
8088 **INULA Ensifolia.** Yellow, 9 in., July-Sept. Pkt., 25c.
8120 **LINARIA Cymballaria** (Kenilworth Ivy). Violet, 3 in., May. Pkt., 10c.
8121 **Dalmatica Macedonica.** Yellow, orange lip. Pkt., 25c.
8200 **LYCHNIS Alpina.** Rose, 4 in. Pkt., 20c.
8254 **NEPETA Mussini.** Bright blue, 1 ft., all summer. Pkt., 25c.
8261 **OENOTHERA Missouriensis.** Yellow. 1 ft., June-Sept. Pkt., 10c.
8370 **PLATYCODON Mariesii Blue.** 1 ft. Deep blue. Pkt., 10c.
8375 **Mariesii Alba.** White. Pkt., 10c.
8269 **POPPY Alpine.** Mixed, 6 in. Pkt., 35c.
8270 **Nudicaule** (Iceland) Mixed. Pkt., 10c.
8286 **—Sunbeams** (new hybrids). Pkt., 25c.
8290 **—Double mixed.** Pkt., 15c.
8404 **PRIMULA Bessiana.** Glowing velvety purple with yellow eye. 18 in., May-June. Pkt., 35c.
8405 **Bullesiana Hybrida.** Fine shades of yellow, orange, apricot, and carmine, 18 in., May-June. Pkt., 50c.
8408 **Japonica Mixed** white, purple, lilac, carmine, 15 in., spring. Pkt., 15c.
8413 **Pulverulenta.** Shining purple carmine, 18 in., May-June. Pkt., 35c.
8414 **Rosea Grandiflora.** Rose carmine, 8 in. May-June. Pkt., 35c.
8416 **Veris (Polyanthus).** Large flowering, mixed, 9 in., spring. Pkt., 25c.
8418 **—Yellow,** 12 in. Pkt., 25c.
8417 **—Munstead** strain. Flowers of largest size, fine shades including yellow and white, 12 in., spring. Pkt., 35c.
8440 **PYRETHRUM Roseum (Painted Daisy). Hybridum Grandiflorum.** Single Mixed. Pkt., 15c
8446 **RANUNCULUS Asiaticus.** 6-12 in. May. Variable in color, generally double in form. Pkt., 15c.
8482 **SAPONARIA Ocymoides Splendens.** 6 in. White and crimson. Trailing. Summer. Pkt., 10c.
8486 **SAXIFRAGA Decipiens Grandiflora.** Masses of white flowers, 18 in. Pkt., 35c.
8487 **Cordifolia Splendens.** 2 ft., Bright rose pink. Pkt., 35c.
8488 **Lingulata Leichtlini.** Bright red. Pkt., 50c.
8489 **Rhei Superba.** Rose, 12 in., May-July. Pkt., 35c.
8484 **Perennial Species.** Mixed. Pkt., 25c.
8485 **Mossy Varieties and Species.** Mixed. Pkt., 25c.
8495A **SCUTELLARIA Coelestina.** Blue. Pkt., 25c.
8501 **SEDUM Acre** (Golden Moss) 3 in. Yellow. June-July. Pkt., 25c.
8501A **Aizoon.** Yellow and brown, for rocks and borders. July. 10 in. Pkt., 25c.
8504 **Anglicum.** Foliage blue-green, numerous flower-spikes, white, with peach blossom. June-July. 4 in. Pkt., 25c.
8505 **Hybridum.** Yellow. 6 in. Pkt., 25c.
8508 **SILENE Alpestris.** Sheets of glistening white flowers from May to July. 6 in. Prefers shade. Pkt., 25c.
8509 **Shafta.** Rose. 4 in. July. Pkt., 15c.
8511 **SOLIDAGO Virgo-aurea Alpestris.** Yellow, 10 in., spring. Pkt., 15c.
8512 **SPERGULA Pilifera.** 4 in. A hardy evergreen. Pkt., 35c.
8519 **STATICE Incana Alba.** 1 ft. Small pearly white flowers. Pkt. 15c.
8540 **THALICTRUM Adiantifolium.** 9 in. June-July. Small plumes, whitish flowers. Pkt., 10c.
8549 **THYMUS Serpyllum.** (Wild Thyme) Creeping plant, purple flowers. Pkt., 25c.
8559 **TUNICA Saxifraga.** Lilac rose, 10 in., May. Pkt., 15c.
8577 **VERONICA Incana.** Ageratum-blue, 12 in., Summer. Pkt., 25c.
8572 **Longifolia Hendersoni Nana.** 1 ft., Dark blue. Pkt., 25c.
8573 **Repens.** 1 ft., May-June. Blue. Pkt., 25c.
8578 **Prostrata** mixed. Blue and white. Trailer. June-July. Pkt., 25c.
8581 **VIOLA Bosniaca.** Magenta purple, 4 in., summer. Pkt., 25c.
5805A **Cornuta Apricot,** Apricot tinged orange. Pkt., 25c.
8582 **—G. Wermig.** Violet blue. 8 in. Summer. Pkt., 25c.
5818 **—Hansa,** Rich violet. Pkt., 25c.
5817 **—Jersey Gem.** Violet blue. Pkt., 25c.
5809A **—Mauve Queen.** Light blue. Pkt. 10c.
5810A **—Primrose Dame.** Sulphur yellow. Pkt., 25c.
5816 **—Puck.** Purple, violet and yellow. Pkt., 25c.
5812A **—Terra Cotta.** Terra cotta shades. Pkt., 25c.
5811A **—Thuringia.** Dark blue, white ground. Pkt., 10c.
8583 **—White Wermig.** White, 8-in., Summer. Pkt. 25c.
8584A **Florariense.** Lavender. Pkt., 35c.
(For other Cornutas, see page 69).

# Vaughan's Annual Flower Seeds

## Surprise Garden Mixture

5848 If you want a thrill and a real adventure in gardening this year be sure and sow this mixture liberally. You will be repaid by the many unusual varieties which will appear during the season. We buy for this mixture surplus stock seed of many varieties which are attractive and easily grown but little known and the result is a continual succession of happy surprises to the gardener. In fact, we frequently are called to identify some particularly attractive sort so it may be ordered separately another year. Plant freely but not too thickly in rows in the vegetable or picking garden, keep watered or cultivated and the faded flowers removed. One of our customers wrote us from La Porte Indiana, on May 1, 1931: "You will notice that I have ordered a considerable quantity of Surprise Garden, and wish to take the opportunity of stating that I have received numerous comments on this garden each year. I know of no combination that the small gardener can have in his garden plan from which he will receive greater pleasure and be of more interest to the lover of flowers than your Surprise Garden Combination." Oz., 25c; ¼ lb., 75c; lb., $2.60.

### ABRONIA

100 **Umbellata Grandiflora (Sand Verbena)** □ × 6 in. A charming trailing succulent plant, with Verbena-like heads of fragrant flowers of bright rose with white center; it delights in a dry, poor soil and sunny situations on rockwork. Pkt., 10c.

### ABUTILON

122 **Maximum Giant-Flowered Mixed (Flowering Maple)** ÷ 3 to 4 ft. Will flower in 6 months from seeding. Blooms under glass all seasons of the year and out-of-doors during summer and fall. Leaves very ornamental and often beautifully variegated. Lovely bell-shaped flowers. Pkt., 25c.

### ACROCLINIUM ROSEUM

A pretty Everlasting bearing graceful, daisy-like flowers, which, when cut in the bud state, can be dried and used for winter bouquets. Blooms six weeks from time of sowing. Height 20 in.

150 **Double Pink.** 155 **Double White.**
160 **Single Mixed.** 165 **Double Mixed.**
Each of the above, Pkt., 10c; ¼ oz., 30c.

Acroclinium for Winter Bouquets

**Key to Symbols**

□ **Annuals.** These attain full growth from seed, flower and die first year.
⅜ **Biennials.** These grow from seed the first year, bloom and die the next, though some varieties bloom the first year.
① **Perennials.** Hardy Perennials.
÷ **Greenhouse Plants.** Start inside and cultivate in pots or else transplant outside when danger of frost is over.
+ **Stove Plants.** To be grown inside all the year round for pots only.
= **Climbing Plants.**
× **Rock Garden Plants.**

### ACHIMENES

130 **Best Mixed** ÷ Flowers tube-shaped in many attractive colors. Nearly all have throats and veins of contrasting shades. Suitable for hanging baskets and pots. Blooms in 6 months from seed. Pkt., 50c.

### ADONIS □

170 **Aestivalis (Pheasant Eye).** 1 ft. Pretty, early blooming annual with deep crimson flowers and feathery foliage. Sow where plants are to remain. Pkt., 10c.

171 **Autumnalis.** 2 ft. Plant somewhat straggly growth with finely divided foliage. Flowers rich scarlet freely produced. Pkt. 10c.

### AGAPANTHUS

175 **Umbellatus (Blue Lily of the Nile)** 1 ft. Bright blue flowers produced in clusters on long stems. Does well out of doors in all Southern States. Greenhouse plant in the North. Pkt. 15c.

### AGERATUM □

One of the best summer blooming plants grown from seed. They are rapid growers, early and constant bloomers. During the hot, dry summer months their bright flowers are produced in the greatest profusion. The taller sorts are useful for cutting. Dwarf sorts are apt to vary in height.

180 **Mexicanum Coeruleum.** 18 in. Beautiful soft lavender-blue, Pkt., 10c; ¼ oz., 30c.
185 **—Album.** White. Pkt., 10c.
187 **—Purple Perfection.** Exceedingly large flower in an unusual dark blue color almost a red shade. Pkt., 15c.
190 **—Mixed.** Pkt., 10c.

AGERATUM—Continued

195 **Mexicanum Nanum, Blue Perfection.** 9 in. The darkest Ageratum grown from seed. Pkt., 10c; ⅛ oz., 25c.
196 **—Nanum Compactum. Blue Ball.** Deep, dark blue. The plant is dwarf and symmetrical in shape and when in full bloom the foliage is literally covered with small flowers giving the appearance of a closely formed blue ball. Pkt., 15c.
202 **—Imperial Dwarf Blue.** 6 in. A charming variety of compact growth, covered with heads of feathery flowers of a deep lavender color. Pkt., 10c; ⅛ oz., 25c.
205 **—Imperial Dwarf White.** 6 in. Pkt., 10c.
208 **—Little Dorrit White.** 6 in. The best dwarf white ageratum. Pkt., 15c.
209 **—Little Dorrit Blue.** 6 in. Dwarf. Azure blue. Pkt., 15c; ⅛ oz., 25c.
217 **—Tom Thumb Little Blue Star.** 4 in. Flower opens light blue with purple center and develops to a bright blue self. Pkt., 15c; ⅛ oz., 50c.
220 **Lasseauxi.** 3 ft. Clusters of handsome rose-colored flowers. Pkt., 10c; ⅛ oz., 25c.

Ageratum Mexicanum Coeruleum

Alyssum Vaughan's Little Gem

## ALYSSUM □

250 **Benthami Maritimum (Sweet Alyssum).** 10 in. Flowers white and honey-scented. It begins to bloom early in the season, and continues until frost. Mix the seed with sand before sowing to prevent sowing too thickly. 1 lb., $2.25; ¼ lb., 60c; 2 ozs., 40c; 1 oz., 25c; ½ oz., 15c; pkt., 10c.

255 **Vaughan's Little Gem, Snow-white Carpet Plant.** 4 in. The plants grow so dense and are so completely covered with snow-white blossoms they create the impression of a beautiful snow-white carpet. 1 oz., 75c; ½ oz., 40c; ¼ oz., 25c; ¼ lb., $2.40; 1 lb., $8.00; pkt., 10c.

257 **Little Dorrit, White.** 4 in. It forms perfect little bushes, fairly smothered with miniature white flowers. A gem for edging and beds. ¼ oz., 30c; pkt., 15c.

260 **Compactum Lilacinum, Lilac Carpet Plant.** 9 in. Distinct variety with delicate lavender flowers. ¼ oz., 25c; ½ oz., 40c; oz., 75c. Pkt., 10c.

261 **Compactum Lutescens.** 8 in. Dwarf, cream or straw color. ¼ oz., 25c; pkt., 10c.

See also Perennial Pages.

## AGROSTEMMA

230 **Coeli (Rose of Heaven)** □ 1 ft. Remarkably pretty, hardy annual of light, graceful habit; flowers light rose, shaded white. Should be sown in the vegetable garden (as you would radishes) at different intervals, and a continuous supply of lovely cut flowers can be had all summer. ¼ oz., 25c; pkt., 10c.

Amaranthus Tricolor (Joseph's Coat)

## AGROSTIS

235 **Nebulosa (Cloud Grass)** □ 1½ ft. An airy and graceful annual grass; looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt., 10c.

## ALONSOA □

237 **Miniata Compacta Coccinea.** 1 ft. Attractive little plants covered with bright scarlet flowers. Pkt., 15c.

238 **Linifolium (flax leaved).** 1 ft. Forms symmetrical and graceful plants with scarlet flowers. Pkt., 10c.

239 **Mutisii.** 1 ft. Compact plants covered with rosy chamois flowers. Pkt., 10c.

240 **Warscewizci.** 15 in. Foliage dark green; racemes of bright scarlet flowers. Pkt., 10c.

## AMMOBIUM

295 **Alatum Grandiflorum.** □ 2½ ft. This "Winged Everlasting" is one of several annuals which produce dry chaffy flowers, capable of being dried and preserved for winter decoration. It bears silvery-white, yellow-centered blooms in loose panicles. Pkt., 10c.

## ANAGALLIS □ ×

305 **Grandiflora Mixed.** 6 in. Lovely dwarf plants, exceedingly effective as edgings, also charming on rockwork and in pots. Pkt., 10c.

307 **Grandiflora Coerulea.** 8 in. It is one of the most charming and conspicuous of our low growing blue flowers, but must have a sunny place to do well. The plants spread rapidly and bloom freely. The flowers are of a real turquoise-blue color. ¼ oz., 50c; pkt., 15c.

## ANCHUSA

310 **Capensis (Summer Forget-me-not).** □ 2 ft. A showy plant with bright Gentian-blue flowers, borne in drooping racemes from July to October. The stems and leaves are hairy. Similar in all respects to the Forget-me-not, though the blossoms are much larger and of finer color. ⅛ oz., 25c; pkt., 10c.

See also Novelties and Perennial Pages.

ANGEL'S BREATH—See Gypsophila Elegans.

## ANTIGONON

315 **Leptopus (Mexican Mountain Rose)** = Handsome summer-blooming greenhouse climber, requiring abundance of light. In the South it blooms freely in the open. Flowers beautiful rose-pink. Pkt., 10c.

ANTIRRHINUM—See page 43.

## ARGEMONE

460 **Hybrida Grandiflora Mixed (The Prickly Poppy)** □ 2 ft. They have branching prickly stems with glaucous leaves with spiny margins. The large Poppylike flowers of silken texture with a mass of golden anthers in the centers makes them additionally attractive. Pkt., 10c.

## ARTEMISIA

470 **Sacrorum Viridis (Summer Fir)** □ Ornamental foliage plant. It forms pyramidal bushes 3 to 5 ft. high. The foliage is a rich, dark green. ⅛ oz., 30c; pkt., 15c.

## AMARANTHUS □

Coarse annual plants, grown for foliage and the showy flower clusters. Related to the Cockscomb. They thrive best in a hot and sunny situation. In very rich soil the leaves become very large but usually lack in bright coloring. Give plenty of room.

265 **Atro-purpureus.** 4 ft. Beautiful, dark purple flowers. Pkt., 10c.

267 **Caudatus (Love Lies Bleeding).** 3 ft. Drooping red spikes. Pkt., 10c.

269 **Cruentus (Prince's Feather).** 3 ft. Dark red feathery flowers. Pkt., 10c.

270 **Molten Fire.** The top leaves are a fiery crimson, the lower ones maroon. Pkt., 15c.

273 **Salicifolius (Fountain Plant).** 3 ft. Willow-leaved. Graceful red and yellow foliage of drooping habit. Pkt., 10c.

275 **Tricolor (Joseph's Coat).** 2½ ft. The inner foliage is of blackest bronze, tipped with green, while the outer foliage is bright scarlet and gold. Pkt., 10c.

285 **Vaughan's Special Mixture.** A well balanced mixture of the above and others. ¼ oz., 25c; pkt., 10c.

Arctotis Grandis

## ARCTOTIS □

450 **Grandis (Blue-eyed African Daisy).** It forms much branched bushes 2 to 3 feet high; its daisy-like flowers are pearly white with a gold band surrounding a delicate mauve center. It is not only pleasing when open, but also when it closes at evening and displays its lilac tinted undersides. Foliage gray green. Especially good cut flower. ⅛ oz., 30c; pkt., 10c.

## ASPARAGUS

480 **Plumosus Nanus (Lace Fern)** + 3 ft. The bright green sprays surpass the Maiden-hair Fern in grace and delicacy of texture. The hard seeds need soaking and bottom heat to sprout them. 10 seeds, pkt., 15c; 100 seeds, 35c.

485 **Sprengeri (Emerald Feather)** + A very elegant foliage plant for hanging baskets, etc.; the minute flowers, which are produced in pretty racemes, are of a rose color with orange anthers. 10 seeds, pkt., 15c; 100 seeds, 35c.

ASTERS—See page 44.

## ASPERULA

490 **Azurea Setosa** □ 1 ft. A dainty annual bearing sky-blue flowers in terminal clusters from June to August. Blooms freely and possesses a delicate perfume. Very effective in a large bed. Pkt., 10c.

For Asperula Odorata, see Perennial Pages.

BABY BREATH—See Gypsophila Paniculata.

## BALLOON VINE

995 **Love in a Puff** □ = A clean, free-growing vine reaching 10 to 15 feet, bearing delicate clusters of bloom and numbers of large, round, inflated seed-pods resembling miniature balloons. The effect is most odd and curious. Oz., 35c; pkt., 10c.

Balloon Vine

# Antirrhinum (Snapdragon) □

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant and are produced on immense long spikes, which render them extremely well adapted for cut flowers. They are easily raised from seed in any rich sunny bed. For continuous flower keep seed pods nipped off. If intended for winter flowering inside, cut back in September.

### Maximum Giant Flowered, 32 inches

These are a wonderful advance in size over all other varieties, each bloom measuring 2 to 3 inches across.

410A **Appleblossom.** Rosy pink, white throat.
410B **Bunch of Lilacs.** Deep lilac.
410C **Canary Bird.** Canary yellow.
411 **Copper King.** (Indian Summer.) Velvety copper-scarlet.
412 **Defiance.** Brilliant scarlet.
413 **Delicate Shades.** A mixture of soft pastel shades.
414 **Fire Flame.** Dark purple and yellow with white throat.
415 **Gotelind.** Light copper, old rose throat.
416 **Golden Queen.** Golden yellow, lilac-rose throat.
418 **Old Gold.** Golden yellow, old rose throat.
419 **Purple King.** Velvety dark garnet.
420 **Ruby.** Velvety ruby-red.
421 **The Rose.** Rose pink.
423 **Snowflake.** Pure snow-white, yellow tube.
423A **Wallflower Colors.** Brown with violet throat.
Each of the above, pkt., 15c.
424 **Maximum or Giant Flowered Mixed.** ⅛ oz. (mixed only), 50c; pkt., 15c.

### Semi-Tall Sorts, 18 to 20 inches

Are particularly good for bedding, as they require no staking. The flowers are most wonderful, in many new shades and tints.

363 **Amber Queen.** Amber overlaid chamois pink, gold lip.
364 **Aurora.** Cinnabar carmine white throat.
368 **Black Prince.** Nearly black, small dark leaves.
371 **Bonfire.** Orange or flame color.
377 **Canary Bird.** Light lemon-yellow.
382 **Crimson Queen.** Rich crimson.
381 **Daphne.** Deep rose, pink white tube.
378 **Defiance.** Cinnabar scarlet.
379 **Empress.** Rich velvety crimson.
383 **Fascination.** Pale pink.
384A **Fire King.** Orange scarlet, white throat.
385 **Firebrand.** Fiery orange-scarlet.
386 **Gloria.** Rich deep rose and white.
390 **Golden Queen.** Rich yellow.
393 **Grenadier.** Vivid orange, white throat, yellow lip.
396 **Mauve Beauty.** Rosy mauve.
397A **Mont Blanc.** White.
398 **Nelrose.** Old rose, shaded blush.
399 **Peerless Pink.** Cameo pink, white lip.
401 **Philadelphia Pink.** One of the best pure pinks.
404 **Prima Donna.** Terra cotta-pink, white throat.
403 **Queen of the North.** Large white flowers.
405 **Rose Dore.** A self-salmon-rose, shaded gold.
407 **Silver Pink.** Pearl pink self.
410 **The Fawn.** Terra cotta-pink, suffused yellow.
Each of above, pkt., 10c.
409 **Majus Nanum Mixed.** Semi-tall sorts. ⅛ oz. (mixed only), 25c; pkt., 10c.

**For others see Novelty Pages.**

Bartonia Aurea

### Tall Large Flowering, 24 to 36 inches

325 **Appleblossom.** Delicate pink with a white throat.
328 **Brilliant Scarlet.**
331 **Butterfly.** Striped.
334 **Coral Red.** Dark rose, white throat.
339 **Delila.** Carmine and yellow, with white throat.
340 **Evening Sky.** Soft salmon, rose, yellow mouth, white throat.
342 **Garnet.** Rich color.
345 **Golden King.** Yellow.
391 **Golden Monarch.** Splendid golden yellow flowers.
346 **Harmony.** Rich terra cotta orange, shaded rose.
397 **Madonna.** Pure white, broad petaled flower.
351 **Queen Victoria.** Pure snow-white.
354 **Rose King.** Deep rose self.
355 **The Cardinal.** Scarlet.
Each of the above, pkt., 10c.
360 **Majus Grandiflorum Mixed.** ⅛ oz. (mixed only), 25c; pkt., 10c.

### Large Flowering Dwarf

356 **Daffodil.** Pale lemon yellow with a broad band of deeper shade across the center. Early flowering. Pkt., 25c.
357 **Madonna Improved.** Early blooming, large flowering dwarf, pure glistening white. Pkt., 25c.
358 **Rose Eclipse.** Rich deep rose flowers with a peculiar lustre. Pkt., 25c.

### Tom Thumb Varieties, × 8 in.

These Snapdragons are splendidly suited for edgings and pot plants.

430 **Pink.**
431 **Orange.** Light yellow, reddish gray throat.
435 **Snow Queen.** Beautiful white flowers.
438 **Fireball.** Dark red, deep violet throat.
Each of the above, pkt., 10c.
445 **Tom Thumb Mixed.** ⅛ oz. (mixed only), 25c; pkt., 10c.

## ATRIPLEX

993 **Hortensis Rubra.** □ 3 to 4 ft. Is a most attractive annual for growing in the mixed border in summer. It has deep red and purple foliage, and forms a handsome plant grown singly or in groups. Ordinary soil. Pkt. 10c.

## BARTONIA

1070 **Aurea** □ 12 in. The little known Bartonia makes patches of polished gold in sunny situations, even if the soil is poor. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. It will not stand transplanting, so should be sown where intended to bloom. Pkt., 10c.

## BALSAM

1008 **Apple and Pear Mixed** □ = 10 ft. Ornamental and quick-growing climber. Excellent to use in covering unsightly places. The flowers are followed by ornamental fruits containing the seed. Pkt., 10c.

**For Balsams, see page 46.**

## BRACHYCOME (Swan River Daisy) □

12 inches

A free-flowering, dwarf-growing annual; covered during the greater part of the summer with a profusion of dainty flowers which resemble small cinerarias, suitable for edgings, small beds or pot culture.

1140 **White.** 1143 **Blue.**
1141 **Pink.** 1146 **Mixed.**
Each of the above, ⅛ oz., 25c; pkt., 10c.

## BRIZA

1150 **Maxima (Quaking Grass)** □ 12 in. Valuable for winter bouquets and wreaths. The seed clusters are heart-shaped and gracefully poised on such slender stems that they are almost constantly in motion. Pkt., 10c.

## BROMUS

1153 **Brizaeformis.** 2 ft. Annual Grass with large drooping panicles. Pkt. 10c.

Antirrhinum Vaughan's Special Mixture

425 Vaughan's Special Mixture of Snapdragons. Includes the best of the maximum, majus grandiflorum and majus nanum varieties and a packet will furnish you with a never-ending color combination of long-stemmed cut flowers. 1 oz., $1.50; ¼ oz., 40c; ⅛ oz., 25c; pkt., 15c.

VAUGHAN'S SPECIAL

## BRYONOPSIS

1165 **Laciniosa** □ = 10 ft. An ornamental climber of the gourd family, bearing green fruit which changes in color to bright scarlet-striped white. Pkt., 10c.

Plant Nemesia Orange Queen with Pansy Swiss Blue.

Brachycome Mixed (Swan River Daisy)

# Vaughan's Asters

Aster, Giant California Sunshine

DURING the late summer and early fall the garden is usually a riot of reds and yellows, so the asters in their dainty and distinct colors as well as their many attractive forms are a pleasing addition. The long stems make them desirable for cut flowers and the blooms last long in water. It should be remembered however in regard to Asters that good culture is essential in order to obtain an abundance of fine flowers. Care should be taken to plant Asters in new ground each year and the best results are obtainable if the ground is carefully prepared before sowing. They should have heavy, loamy soil and a sunny open situation with a liberal amount of lime and wood ashes together with bone meal. The plants should be cultivated frequently and tobacco stems are helpful if placed around the stems.

## Dwarf Section, Up to 12 Inches

They are dwarf and bushy in habit and are covered with many bright and attractive flowers. In Europe they are extensively used and we might follow their example as these plants being dwarf do not suffer from storms and the flowers appear early.

500 **Vaughan's Snowball.** The best dwarf white.
501 **Vaughan's Pink Ball.** Lovely shade of pink.
505 **Vaughan's Fireball.** Brightest scarlet.
Each of the above, pkt., 15c.

522 **Triumph Mixed.** 10 in. Excellent very dwarf Peony flowered Aster, in many attractive shades. Pkt., 10c.

515 **Boltze's Dwarf Bouquet Mixed.** 10 in. Pretty little plants of handsome form, completely covered with flowers. Pkt., 10c.

520 **Dwarf Chrysanthemum Flowered. All colors, mixed.** 12 in. Of very compact growth; 3½-in. flowers; free flowering and later than other varieties, therefore valuable for succession. Pkt., 10c.

521 **Dwarf Queen Mixed.** 14 in. Beautiful early class for pot, beds and borders. Pkt., 10c.

950 **Asters, Dwarf Mixture.** This is a mixture of many varieties of dwarf sorts and where a large mixed bed of asters is desired this will answer the purpose nicely. ⅛ oz., 25c; pkt., 10c.

Aster, American Beauty Mixed

### Vaughan's Excelsior Mixture of Dwarf Asters

725 It is comprised of the most distinct and desirable colors of the different classes of dwarf asters, and many others not listed, especially selected for this mixture, insuring satisfaction to the grower. ⅛ oz., **50c**; large pkt., **25c**; pkt., **15c**.

VAUGHAN'S SPECIAL

## Semi-Tall Section, 12 in. to 16 in.

### Giant Comet

This giant class is an improvement on the old and inferior Comet Class, not only in bearing much larger flowers, but the petals are longer and broader.

565 **Yellow.** Pkt., 10c.

600 **Mixed, all colors.** ⅛ oz., 30c; pkt., 10c.

550 **Daybreak Mixed, all colors (Improved American Victoria).** The Daybreak class forms strong bushy plants of very even growth. The full round flowers grow on strong, stiff upright stems. Extremely valuable for bedding. Pkt., 10c.

We offer in annual novelty pages a number of disease resistant varieties of Asters.

We offer a leaflet on the culture of Asters which is supplied free if asked for at the time of ordering.

### Giant California Sunshine Mixed

559 They are the result of a direct cross between the now well-known California Giants and the dwarf, much-branched Sunshine type, hence the name. Plants of this new race grow 3 feet high and bear blossoms on long, stiff stems, admirable for cutting. The individual blooms are enormous, 4 to 5 and 6 inches in diameter.

With the disk a lovely light-yellow and the encircling guard petals varying shades of Enchantress pink, apple blossom, deep-rose, blue and lavender, there are produced color contrasts startlingly beautiful. Not completely fixed to type about 50% will be true, 500 seeds, per packet, 75c; small packet, 250 seeds, 40c.

### The Sunshine

THE plants are bushy and strong, with many flower stalks. Some of the flowers have twisted petals and some have quilled petals; all have a cushion center of tiny quills of a contrasting color which makes a flower look as if it were covered with snowflakes. The blue flowers are dotted with a paler blue and some in white, and the rose in a lighte shade of pink or white.

885 **White.** 889 **Light Blue.**
883 **Flesh.** 888 **Lilac.**
887 **Pink.** 886 **Dark Blue.**
884 **Dark Rose.**
Each of the above, pkt., 15c.

890 **Mixed, all colors.** ⅛ oz., 35c; pkt., 15c.

## Semi-Tall Section, 11 in. to 16 in.

### Queen of the Market

The best early aster, usually in full bloom two weeks before most other sorts begin to blossom. Of graceful spreading habit.

615 **White.** 625 **Scarlet.**
617 **Flesh.** 630 **Light Blue.**
620 **Pink.** 640 **Purple.**
623 **Crimson.** 643 **Dark Blue.**
Each of the above, pkt., 10c.

645 **Mixed, all colors.** ⅛ oz., 25c; pkt., 10c.

The scarlet is a charming shade, a light ruby color.

### Heart of France

602 **Heart of France** opens red as the purest ruby, deepens with age and retains its remarkable color to the very end. The petals appear strikingly changeable, showing now a glow and sheen quite unique, now a soft warm velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and will command instant admiration. ⅛ oz., 50c; pkt., 15c.

### California Giants

They combine the robust habit of growth and length of stem that characterizes the Beauty type and the Crego or Ostrich Feather type of flower A true non-lateral type.

686A White 689 **Light Blue.**
687 **Peachblossom.** 688 **Dark Purple.**
689A **Dark Rose.**
Each of the above, pkt., 15c.

689B **Mixed, all colors.** ⅛ oz., 50c; pkt., 15c.

Aster, Heart of France

# Vaughan's Asters

Aster, Giant Branching Mixed

**Tall Section**—Continued

### The Beauty

Attains a height of 2 to 3 feet of branching habit. Flowers large, borne on long, stout stems. Planted with Crego and Giant Branching will bloom at same time.

681 **White.** 683 **Rose.**
681A **Peachblossom.** 683A **Black Prince.**
681B **Sept. Beauty.** 683B **Azure Fairy.**
682 **Carmine-rose.** 684 **Lavender.**
682A **Crimson.** 685 **Purple.**
Each of the above, pkt., 15c.
686 **Mixed, all colors.** ⅛ oz., 35c; pkt., 15c.

### Giant Crego

The flowers are of immense size and borne on stems twelve inches or more in length. The petals are most attractively curled and twisted, resembling Chrysanthemums. The plants are of strong branching growth and usually attain a height of two and one-half feet. The delightful flowers are borne in abundance from late August until the end of September.

690 **White.** 702 **Cattleya. Orchid Shade.**
693 **Shell Pink.**
694 **Malmaison Pink.** 703 **Lavender.**
696 **Rose Pink.** 709 **Purple.**
699 **Crimson.** 710 **Dark Blue.**
700 **Azure Blue.**
Each of the above, pkt., 10c.
715 **Mixed, all colors.** ⅛ oz., 30c; pkt., 10c.

### Crown

Large-flowered variety, each bloom of which has a clear white center. It is wonderfully attractive.
730 **Mixed, all colors. Pkts., 10c.**

Aster Crego, Lavender

### Early Wonder (Express)

The best extra early variety. The flowers are of good size, quite double, and borne on good stiff stems.
829 **Mixed, all colors.** ⅛ oz., 35c; pkt., 10c.

### Vaughan's Giant Branching

Beautiful asters for cut flowers. The branching habit is accompanied with great vigor of growth and profusion of bloom. The flowers are very large, very double, borne on long, stiff stems, and the colors clear and handsome.

735 **White.** 755 **Mid Blue.**
740 **Peachblossom.** 760 **Lavender.**
745 **Flesh Pink.** 765 **Dark Violet.**
747 **Rose Pink.** 770 **Purple.**
750 **Crimson.**
Each of the above, pkt., 10c.
780 **Mixed, all colors.** ⅛ oz., 30c; pkt., 10c.

### Vaughan's Giant Ostrich Feather

The finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut flowers par excellence.

785 **White.** 803 **Crimson.**
786 **Malmaison Pink.** 804 **Sky-Blue.**
791 **Terra Cotta.** 806 **Silvery Lilac.**
792 **Vermilion Carmine.** 809 **Light Blue.**
800 **Rose.** 812 **Dark Blue.**
Each of the above, pkt., 10c.
820 **Mixed, all colors.** ⅛ oz., 30c; pkt., 10c.

### King

In form the flower is entirely distinct from any other variety; petals somewhat resemble the quilled varieties, but are much larger and broader, those in the center being curled and incurved, completely covering the crown. In shape and size the bloom is round, full and very large.

840 **White.** 852 **Violet.**
841 **Shell Pink.** 856 **Lavender.**
846 **Rose.** 857 **Dark Blue.**
849 **Crimson.**
Each of the above, pkt., 10c.
860 **Mixed, all colors.** ⅛ oz., 30c; pkt., 10c.

### Moreton Pink

781 Of the Giant Branching type, the large flowers are well formed and freely produced on long stems; color a beautiful clear pink with a salmon sheen. Pkt., 15c.

### Royal (Early Flowering Branching)

Its habit of growth is entirely distinct, the stems growing directly from the ground and not on side-shoots from the main stem like other varieties. Medium early bloomer.

865 **White.** 875 **Lavender.**
868 **Shell Pink.** 879 **Purple.**
871 **Rose Pink.**
Each of the above, pkt., 10c.
882 **Mixed, all colors.** ⅛ oz., 30c; pkt., 10c.

### Soleil D'Or

835 **Golden Sun.** This is the best yellow Aster. The quilled flowers are of fair size; they are borne on long stems; the color is a pleasing light yellow. Pkt., 15c.

### Other American Varieties

555 **Aurora Salmon Rose.** Flowers beautiful salmon rose color. Pkt., 25c.
603 **Everlasting Flesh.** This curious variety appeared lately in the fields of an Aster specialist. It resembles a large Helichrysum; when cut and dried it retains its color and shape as an everlasting flower. Pkt., 15c.
604 **Everlasting Rose.** Same as above only deeper in color. Pkt., 15c.
910 **Lavender Gem.** The flowers are of a true lavender shade and the petals are gracefully curled and twisted, and the blooms are borne on long, firm stems. Pkt., 15c.
920 **Peerless Pink.** The flowers are enormous, globular in shape, many five inches across, of a most pleasing rich shell-pink. Pkt., 15c.
925 **Crimson Giant.** The blood-red blossom is particularly bright and the extreme doubleness of its flowers make a bed of them a mass of oriental splendor in a garden. Pkt., 15c.
930 **White Perfection.** A fine new mid-season Aster of tall, upright growth, long-stemmed, pure white double flowers about four inches in diameter, of perfect form, the broad, slightly folded petals being arranged in circular rows, like some Dahlias. Pkt., 15c.
940 **Sensation.** Flowers double and incurved, resembling a Dahlia and the flower a lively cardinal-red. Pkt., 15c.

Aster, The King

### Vaughan's Excelsior Mixture of Tall Asters

990 This is a mixture of the most beautiful, striking and distinct colors of all the tall-growing asters. Selected from the cream of the tall varieties and others especially purchased for this mixture. ⅛ oz., 50c; large pkt., 25c; pkt., 15c.

VAUGHAN'S SPECIAL

945 **Asters, Tall Mixture.** The newer kinds, such as our Excelsior mixture contains, are lacking, still many charming varieties are included in this mixture. 1 oz., 75c; ¼ oz., 25c; pkt., 10c.

### Single Marguerite Aster

Plants strong, vigorous and of handsome pyramidal habit, very free-blooming and produce their beautiful flowers on long, slender stems. The flowers are from 2 to 3 inches in diameter, with small yellow centers.

955 **White.** 970 **Light Blue.**
965 **Pink.** 975 **Mauve.**
964 **Bright Rose.** 976 **Violet.**
966 **Crimson.** 960 **Dark Blue.**
Each of the above, pkt., 10c.
980 **Marechal Joffre.** Large flowered red. Pkt., 15c.
985 **Mixed, all colors.** ⅛ oz. 25c; pkt., 10c.

**See Novelty pages for later introductions.**

In making up your 1932 Budget do not forget your Garden Needs.

Aster Giant Ostrich Feather Mixed

Balsam Vaughan's Invincible Mixed

## DOUBLE BALSAM □ 1½ to 2 ft.

An old and favorite garden flower, producing the double flowers clustered in the axils of the leaves on very short stems. The plants are sturdy and fleshy, making a fine garden plant. Balsams like the hot sun, rich soil and plenty of water. For perfect development the plants should be set from 12 to 18 inches apart.

1010 **Alba Perfecta.** Pure white.
1014 **Crimson.** 1018 **Dark Blue.**
1020 **Flesh Pink.** 1022 **Lemon Queen.**
1023 **Nilsson Rose.** Deep dark rose.
1025 **Lilac.**
1027 **Prince Bismarck.** Salmon-pink.
1031 **The King.** Brilliant scarlet.
1033 **The Queen.** Pale rose.
Each of the above, pkt., 10c.
1040 **Double Rose and Camellia-flowered Mixed.** Pkt., 10c; ⅛ oz., 25c.
1050 **Dwarf Balsams Mixed.** 8 in. Perfect little bushes with double and semi-double flowers. The colors are pretty and pleasing. Pkt., 10c.
1055 **Goliath White.** 4 ft. Remarkable for their immense height and extreme doubleness. Excellent for large and striking flower-groups. Pkt., 10c.
1057 **Goliath Scarlet.** Extremely brilliant, large and very double. Pkt., 10c.
1059 **Goliath Chamois Rose.** A most pleasing color. Pkt., 10c.
1045 **Vaughan's Invincible Balsams Mixed.** Mixed from separate colors and includes everything that is desirable in Balsams. Pkt., 10c; ⅛ oz., 30c.
**See also Novelties.**

Begonia Salmon Queen

## BEGONIA □

### Ever-Blooming Bedding Varieties

A continuous flowering section of begonias of the greatest value for bedding; the flowers, although small, are of brilliant colors and borne in great profusion from summer to autumn. Seedlings of spring bloom in summer while seedlings of summer make valuable decorative plants for the house during winter.

1071 **Christmas Cheer Red.** A very large flowered variety, the blossoms attaining a diameter of two inches. Color, dark crimson-scarlet. Pkt., 50c.
1072 **Christmas Pink.** The growth, blossoms and foliage identical to above variety only the color is a delightful shade of warm rose-pink. Pkt., 50c.
1074 **Radio.** A very large-flowered, shining pure carmine-scarlet. Pkt., 25c.
1078 **Gracilis Luminosa.** Large, bright scarlet flowers. Pkt., 25c.
1075 **—Mignon.** Bright salmon-scarlet. Pkt., 15c.
1080 **—Rose Charm.** Color fresh rose. Pkt., 35c.
1081 **—Prima Donna.** 1 ft. The flowers are a brilliant, clear pink, shading to carmine-rose. Pkt., 25c.
1076 **—White Pearl.** White flowers, foliage green. Pkt., 25c.
1084 **Semperflorens Atro-purpurea Vernon.** Bright orange-carmine flowers, deep-red foliage. Pkt., 10c.
1082 **—Flame of Love.** 1 ft. Brilliant scarlet flowers with shining golden yellow stamens. Foliage bright green, tinted brown. Pkt., 35c.
1073 **—Gustav Knaake.** Flowers glowing pink with salmon shade; leaves green with bronze shade. Pkt., 50c.
1093 **—Melanie.** The color is white, beautifully edged with pink. Pkt., 25c.
1086 **—Salmon Queen.** Large salmon flowers with dark leaves. Pkt., 35c.
1094 **—Wuerttembergia.** Blood-red. Pkt., 25c.
1090 **Semperflorens Mixed.** Pkt., 10c.

### Tuberous-Rooted Begonias

For brilliancy of color, duration and profusion of bloom, few plants can compare with the tuberous-rooted begonias. For greenhouses and for summer bedding they are unequaled. Seedlings raised in heat early in spring will flower the same summer.

1099 **Single Tuberous-Rooted Mixed.** Saved from finest exhibition varieties, all having large, well-formed flowers of many brilliant shades of color. Pkt., 35c.
1100 **Tuberous Rooted, Narcissus Flowered.** Resemble the flowers of the large Trumpet Narcissus. Comes in various colors of scarlet and carmine, light and dark yellow, orange, buff, rosy white, and many new tints of rose from light to dark. Pkt., 50c.
1101 **Lloydii.** This variety is excellent for hanging baskets or window boxes, owing to its drooping habit. The flowers are pendulous, double in form, and in various shades of rose and carmine. Pkt., 50c.
1103 **Double Tuberous-Rooted Mixed.** Producing on strong, erect stems an abundance of very double flowers, ranging from brilliant rose to carmine, often with white margin or mottling. Very striking. Pkt., 50c.
1105 **Frilled Tuberous-Rooted Mixed.** Seed saved from selected, best frilled flowers. Pkt., 35c.

## BELLIS PERENNIS FL. PL. ✱

### English Daisy, 6 to 8 inches

These jolly little flowers are quite popular because of their bright color, their profuse and long blooming period, and their dwarf and compact growth. The leaves form a rosette at the base of the plant, while the daisy-like double flowers are borne above on stiff, yet graceful stems.

1110 **Snowball.** Double pure white. Pkt., 10c.
1113 **Longfellow.** Double dark pink. Pkt., 10c.
1116 **Double Choice Mixture.** Pkt., 10c.
1119 **Monstrosa Alba.** White. Larger than Snowball. Pkt., 15c.
1123 **Monstrosa Rosea.** Pink. Larger than Longfellow. Pkt., 15c.
1124 **Monstrosa Aetna.** Rich deep red quilled flowers. Pkt., 15c.
1130 **Monstrosa Double Red.** Pkt., 20c.
1131 **Monstrosa Mixed.** Pkt., 15c.
1135 **Rosy White, Double Frilled.** Pkt., 20c.

**BIRD OF PARADISE**—See Poinciana page 63.

### COVERING FOR GRAVES

If seeds are used the most satisfactory is Ageratum Imperial Dwarf Blue, in center, edged with Alyssum Little Gem. Or, Portulaca, in center, either in separate colors or mixed, edged as above with Alyssum Little Gem. All of these will do well with very little care or attention and are particularly good in sunny locations.

Browallia Speciosa Major

## BROWALLIA □ 1 ft

One of our favorite profuse blooming bedding plants, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue, very uncommon; grows freely in any rich soil; blooms finely in the winter if lifted in autumn and cut back.

1155 **Speciosa Major.** A beautiful flowering variety of the most brilliant ultramarine blue; a rare color; does finely outside in the border or in hanging baskets or in vases. Pkt., 15c.
1154 **Speciosa Major Alba.** White. Pkt. 15c.
1156 **Elata White.** Pkt., 10c.
1157 **Elata Blue.** Pkt., 10c.
1160 **Elata Mixed.** Blue and White. Pkt., 10c.

**BURNING BUSH**—See Kochia.

## CALCEOLARIA +

1180 **Hybrida Grandiflora (Pouchflower). Fine Mixed.** 1½ ft. The gorgeous beauty of these flowers renders them indispensable for greenhouse decoration. Bears a large profusion of small, pocket-shaped flowers, many of which are beautifully tigered or spotted. Pkt., 300 seeds, 25c.
1181 **Hybrida Grandiflora Graciosa Mixed.** A type with very large flowers in self-colors of a great variety of shades, especially in the yellow shades. Sow seeds in the spring for blooming in greenhouse next winter. Pkt., 50c.
1183 **Lignosa Bunch of Gold.** A compact plant growing 12 inches high, producing several bunches of beautiful green-yellow flowers, lasting all summer. Pkt., $1.00.
1185 **Rugosa, Mixed.** Includes nearly all the beautiful shades found in the Herbaceous Calceolaria. Pkt., 25c.

## BUSH BASILICUM □ 6 to 10 in.

1166 Makes an attractive globe shaped, bushy plant with clean, vivid green, very fragrant foliage. May be used to edge garden walks or flower beds, also is very delightful in window or porch boxes. May be potted up and will do well in the house during the Winter. Does especially well in cities as smoky atmosphere does not affect them. Pkt. 10c; ¼ oz. 25c; ½ oz. 40c; 1 oz. 75c.

Bellis Perennis Monstrosa Double Mixed

Calliopsis Vaughan's Special Mixture

## CALLIOPSIS (Tickseed) □

Very graceful border plants, supplying throughout summer an abundance of elegant showy flowers which are greatly prized for bouquets and vases. They will thrive anywhere, even in city gardens, where their bright colors are highly appreciated.

1209 **Bicolor Splendens.** Large golden yellow flowers with brown centers. Pkt., 10c.

1210 **Crown of Gold (Coronata Maxima).** 20 in. Pure golden yellow, 2 inches across, on long, wiry stems; hardy and blooms nearly all season. Pkt., 10c.

1211 **Tom Thumb, Crimson King.** Height, 6 to 7 in., forms a perfect little bush, with rich, dark crimson flowers. Pkt., 10c.

1213 **Golden Ray.** 6 to 8 in. Flowers golden yellow with dark, purplish brown center. Pkt., 10c.

1216 **Drummondi, Golden Wave.** 2 ft. Flowers yellow with a circle of rich crimson-brown around the eye. ⅛ oz., 25c; pkt., 10c.

1217 **Nigra Speciosa.** 3 ft. Rich reddish maroon Pkt., 10c.

1221 **Radiata Tigrinia (Tiger Flower).** 6 to 8 in. Flowers large reddish brown, turning golden yellow. Pkt., 10c.

1235 **Dwarf Varieties, Mixed.** Valuable for small mixed beds and borders. Pkt., 10c.

1240 **Double Mixed,** all colors. Pkt., 10c.

1245 **Vaughan's Special Mixture Calliopsis.** This is the most pleasing mixture offered. It contains all the desirable sorts and colors of these beautiful flowers. A great number of kinds have been especially selected for it. ¼ oz., 30c; pkt., 10c.

**CALIFORNIA POPPY**—See Escholtzia

**CASTOR OIL PLANT**—See Ricinus.

**CENTAUREA**—See page 49.

**COREOPSIS LANCEOLATA**—See page 70.

Cardinal Climber

## CARNATIONS □ ✱

The Carnation has long been prized as a hardy border flower. Being hardy, free-flowering, and easily grown either in flower-beds, borders, or pots, it is one of the most valuable and beautiful of our summer flowers and a favorite with every one. Plants raised from seed bloom more profusely than propagated plants, and are therefore to be preferred.

1335 **American Hybrids.** A valuable race of large-flowered carnations, bearing their handsome blooms on long wiry stems for a long time in succession. Pkt., 35 seeds, 25c.

1345 **Guillaud Riviera Market.** Nearly all double flowers of fine form and delicate shades, including yellow. Pkt., 25c.

1350 **Giant Margaret Mixed.** Flowers of very large size, measuring 3 in. or more in diameter; colors include all the shades of white, pink, crimson and striped. Upright growth requiring hardly any support. Pkt., 100 seeds, 15c.

**Improved Early Flowering Perpetual.** Plants bloom in about five months from sowing and continue to bloom until the end of summer. The flowers are very double, of large size. The calyx does not split. They are borne on stiff stems 15 to 18 inches high.
Our strain will produce 90% double flowers and comes true to color.

| | | | |
|---|---|---|---|
| 1336 | **White** | 1340 | **Scarlet** |
| 1337 | **Yellow** | 1341 | **Maroon** |
| 1338 | **Rose Pink** | 1342 | **Salmon Rose** |
| 1339 | **Flesh Pink** | | |

Each of the above. Pkt. (100 seeds), 25c.

1343 Mixed all colors. Pkt. (100 seeds), 25c.

Carnation Vaughan's Special Mixture

1390 **Vaughan's Special Mixture.** This is a mixture of the best strains. The plants will bloom the first summer and will produce many flowers equal to the best florist's Carnation. They may be lifted in September, potted and will bloom all winter in the house. Pkt., 100 seeds, 25c.

**Double Chabaud Giant, Enfant de Nice Carnations** are the result of a cross between two French varieties. They are of compact growth with extremely stiff stems bearing flowers which are up to 2¼ to 2¾ inches in diameter without disbudding the plants. The colors come about 75% true from seeds and give about 90% of plants with double flowers.

| | | | |
|---|---|---|---|
| 1325 | **White** | 1327 | **Rose** |
| 1326 | **Salmon** | 1328 | **Red** |

1329 Mixed from varieties noted above.
Each of above, Pkt., 35c.

1360 **Margaret, Double Mixed.** Pkt., 10c.

| | | | |
|---|---|---|---|
| 1365 | **White.** | 1375 | **Pink.** |
| 1370 | **Yellow.** | 1385 | **Red.** |

Each of the above, pkt., 10c.

**See Hardy Perennials.**

## CARDINAL CLIMBER □ = 25 ft.

1320 This is a very attractive, strong and rapid grower, attaining a height of 25 feet, with beautiful fern-like laciniated foliage and literally covered with a blaze of fiery cardinal-red flowers from midsummer to frost. The flowers are about 1 inch in diameter and are borne in clusters five to seven blooms each. Like all Ipomoeas it delights in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1st. The vines are a favorite play ground of dainty humming birds. Pkt., 10c.

Celosia Childsii—Crimson

## CELOSIA (Coxcomb) □ 8 in.

### Cristata or Crested Dwarf Sorts

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds.

1410 **President Thiers.** Fine dwarf habit, with bronzy foliage, and large, handsome, velvety crimson combs. Pkt., 10c.

1415 **Empress.** Blood-red combs and brown foliage. Pkt., 10c.

1420 **Aurea.** Golden yellow combs. Pkt., 10c.

1430 **Dwarf Mixed.** Pkt., 10c.

### Cristata or Crested Tall Sorts 18 to 24 in.

| | | | |
|---|---|---|---|
| 1431 | **Chamois** | 1436 | **Rose** |
| 1432 | **Crimson** | 1437 | **Scarlet** |
| 1433 | **Golden Yellow** | | |

Each of above, pkt., 15c.

1435 **Tall Mixed.** Pkt., 10c.

### Plumosa or Plumed Varieties, 2½ to 3 ft.

These stately plants are considered among the most ornamental, and should not be omitted in any garden. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

1440 **Plumosa Aurea.** Orange Ostrich Plume. Pkt., 10c.

1445 **Plumosa Coccinea.** Crimson Ostrich Plume. Pkt., 10c.

1450 **Plumosa Mixed,** all colors. Pkt., 10c.

1455 **Plumosa Thompsoni Magnifica.** A choice strain of the Ostrich Plume Celosias. Pkt., 10c.

1462 **Chrysanthemiflora.** Produces a compact round head of flowers in many attractive shades, the deep crimson and pastel shades being particularly attractive, the stems are round and straight and very strong. Pkt., 10c.

1465 **The Chinese Woolflower (Celosia Childsii).** Plants grow two to three feet high, the bloom starting early with a central head, round and globular. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade until hit by frost; but all continue to expand and glow with a deepening richness of color, a dark crimson-scarlet. Pkt., 15c.

1466 **Chinese Woolflower. Deep Rose.** This variety is exactly like the original Chinese Woolflower, only the color is a deep rose instead of scarlet. Pkt., 15c.

1456 **Parrot's Feather.** The plants are stocky in growth, the main stem and each branch being terminated by the most lovely plumes. The colors are truly marvelous; most of them have a silvery appearance varying from the most charming shades of silvery pink, silvery salmon to red, deep red, bright yellow and orange. Many of the plumes are terminated or crowned with cockscombs of varied and fantastic shapes, of texture like the finest velvet plush. Pkt., 10c.

1460 **Pride of Castle Gould.** Plants grow compact and pyramidal and produce immense flower heads, resembling willow plumes in many remarkable shades. Pkt., 25c.

1475 **Dwarf Plumosa Mixed.** Good for pots. Pkt., 10c.

**CHINESE LANTERN PLANT**—See page 72.

**CHINESE FORGET-ME-NOT**—See Cynoglossum amabile.

**CHRISTMAS ROSE**—See Helleborus Niger in perennial pages.

Cacalia

## CACALIA (Tassel Flower) □ 2 ft.

Each flower is a miniature paint brush produced on long wiry stems which make it an excellent cut flower.

1172 **Aurea.** Pkt. 10c. 1171 **Scarlet.** Pkt. 10c.
1170 **Mixed.** Scarlet and yellow. ⅛ oz., 25c; pkt., 10c.

## CACTUS ÷

In view of the great interest in Cacti at the present time, we are offering seeds of some of the most popular types in mixture, and a few of the better known varieties separately; also a collection of ten varieties in separate packets.

Cacti can easily be grown from seed and is an interesting pastime, each miniature plant being as perfect as the parent, and most of the varieties offered developing comparatively fast. The seeds germinate irregularly, over a period of from 14 to 40 days. All the bags have cultural directions.

We also offer a booklet **"Cacti in the Home"** containing much valuable information on Cacti. Price, 35c.

1252 **Cereus** (Column cacti) mixed.
1253 **Echinocactus** (Hedgehog-cacti) mixed.
1254 **Echinocereus** (Cluster-cacti) mixed.
1255 **Echinopsis** (Tube-flowering hedgehog-cacti) mixed.
1256 **Mammillaria** (Wart-cacti) mixed.
1257 **Opuntia** (Fig-cacti) mixed.
1251 **Cacti.** All kinds and forms mixed.
Any of above, per pkt., 25c; any 5 for $1.00.
1251A **Collection.** 10 sorts, each in illustrated bag with cultural directions. Each, $1.00.
1258 **Cephalocereus Senilis** (Old Man Cactus). Pkt., 25 seeds, 25c.
1258A **Cereus Grandiflorus** (Queen of the Night). Pkt., 10 seeds $1.00.
1259 **Lithops Lesliei** (Flowering Stones). Pkt., 20 seeds, 35c.

**CANTERBURY BELLS**—See Campanula Medium on page 70.

Canary Bird Vine

## CALANDRINIA □

1175 **Grandiflora.** 16 in. Handsome, hardy annual; fleshy leaves and bright rose-colored flowers; especially suitable for sunny situations. Pkt., 10c.

1177 **Umbellata.** 6 in. Hardy perennial of trailing habit, producing brilliant, crimson flowers. Excellent for rockwork and sunny situations. Blooms the first season. Pkt., 10c.

## CANARY BIRD VINE □ = 15 to 20 ft.

1250 A dainty vine with beautiful cut leaves and pretty, delicate flowers of a clear canary-yellow. From the color of its blossoms and also from a fancied resemblance of their shape to a bird with wings extended, the plant obtained its common name. Does well in the shade. ½ oz., 30c; pkt., 10c.

## SPECIAL MIXTURE OF ANNUALS FOR CUT FLOWERS

1400 This will produce a glorious amount of flowers for cutting. We would suggest planting this in rows in the vegetable garden where the plants may be cultivated and the blossoms kept cut close so the production of flowers will be encouraged, as the more one cuts the more one has to cut. The secret being not to allow any seed pods to form. Pkt., 15c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50; lb., $5.00.

Calendula Orange King

## CALENDULA (Pot Marigold) □

One of the best and showiest free-flowering hardy annuals, growing in any good garden soil, producing a fine effect, in beds or mixed borders, particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring.

1190 **Orange King.** 18 in. The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color glowing orange. ⅛ oz. 25c; pkt., 10c.
1191 **Ball Orange.** It has fine stems, immense double flower of a brilliant glisteny orange. ⅛ oz., 65c; pkt., 25c.
1193 **Sulphur Queen.** 20 in. Large sulphur-yellow. ⅛ oz., 25c; pkt., 10c.
1196 **Meteor.** 20 in. Apricot-orange, striped primrose. ⅛ oz., 25c; pkt., 10c.
1197 **Pongei Flore Pleno.** 12 in. Double white flowers. Pkt., 10c.
1198 **Apricot.** A charming and delightful shade, soft yellow with a suggestion of salmon-pink. ⅛ oz., 25c; pkt., 10c.
1199 **Radio.** The flowers are medium size, good depth and clear orange in color. The petals are beautifully quilled which has an extraordinary effect on the appearance of the flower. Pkt., 25c.
1205 **Mixed, all colors.** For woodlands and perennial borders. ¼ oz., 20c; pkt., 10c;

## ANNUAL CLIMBERS MIXED

1795 A mixture we have made of all the annual climbers suitable for outdoor culture. Pkt., 10c.

Candytuft Mixed

## CANDYTUFT □

These Candytufts are of fine habit and profuse bloomers. They soon flower from seed and remain long in beauty. For massing in flower beds and borders and for edgings they are admirably adapted, while for cutting, the flowers are greatly prized.

1260 **Giant Hyacinth-Flowered White.** 1 ft. A grand border plant, bearing very large, bold spikes of snowy white flowers, habit sturdy and compact. This is an especially select stock. Oz., 85c; ¼ oz., 25c; pkt., 10c.

1276 **Carminea.** 1 ft. 1277 **Flesh.** 1 ft.
1279 **Purpurea.** 1282 **Rose Pink.**
1286 **Lilacina.**
Each of the above, ⅛ oz., 25c;, pkt. 10c.

1270 **Queen of Italy.** 8 in. Dwarf bushes covered with large pink blooms. ⅛ oz., 25; pkt., 10c.

1290 **Dwarf Hybrids Mixed.** 6 in. Plants of fine, compact growth, covered with large flowers ranging in color from rose, salmon, coral-pink and delicate blush to lilac and purple-crimson. Pkt., 10c.

1291 **Dwarf White.** 1292 **Dwarf Flesh.**
1293 **Dwarf Rose.** 1294 **Dwarf Crimson**
1295 **Dwarf Lilac**
Each of above ⅛ oz., 25c. Pkt. 10c.

1289 **Little Prince.** 6 in. Dainty and distinct candytuft with immense spikes of snow-white flowers, borne in great profusion on dwarf, sturdy plants. Pkt., 10c.

1300 **Mixed, all colors.** ½ oz., 15c; pkt., 10c.

## CANNA ÷ 2½ to 8 ft.

Enormous brilliant clusters of bloom borne on spikes above broad leaves of green or bronze, in tropical effect. These are usually planted from roots or started plants, but they can be successfully grown from seed if planted early. The seed should be pierced in one spot with a file and soaked in lukewarm water for 24 hours before sowing.

1310 **Giant Flowered, Mixed.** Pkt., 10c.

1311 **New Varieties, Mixed.** These seeds are selected from a choice collection of a French specialist who has given much time and attention to this plant. Pkt., 25c.

1312 **Large Flowering Pink.** Pkt., 25c.

## ANNUAL CLIMBERS

315 **Antigonon Leptopus.** Pkt., 10c.
995 **Balloon Vine.** Pkt., 10c.
1008 **Balsam Apple and Pear Mixed.** Pkt., 10c.
1165 **Bryonopsis Laciniosa.** Pkt., 10c.
1250 **Canary Bird Vine.** Pkt., 10c.
1320 **Cardinal Climber.** Pkt., 10c.
1820 **Cobaea Scandens.** Pkt., 10c.
1900 **Convolvulus Major, Mixed.** Pkt., 10c.
2040 **Cypress Vine, Mixed.** Pkt., 10c.
2340 **Dolichos Mixed.** Pkt., 10c.
2660 **Gourds Mixed.** Pkt., 10c.
2850 **Humulus Japonicus.** Pkt., 10c.
**Ipomoea, all varieties.**
3215 **Maurandya Mixed.** Pkt., 10c.
3220 **Melothria Punctata.** Pkt., 10c.
3745 **Tall Nasturtium, Vaughan's Special Mixed.** Pkt., 10c.
5640 **Thunbergia Mixed.** Pkt., 10c.
5847 **Wild Cucumber.** Pkt., 10c.

Bachelor's Buttons Vaughan's Special Mixture

## CENTAUREA CYANUS (Bachelor's Button or Cornflower) □ 2 ft.

They are easy to grow, bloom continuously. Just sow the seed broadcast wherever you want the plants to grow. If the soil is rich, the flowers will be larger and have longer stems. Make sowings at intervals of three weeks apart, beginning in early May.

### Single Flowering

1525 **Dwarf Victoria.** Blue. 9 in. Neat and compact dwarf variety with a profusion of deep blue flowers, useful for edgings. Pkt. 10c.

### Double Flowering Varieties

1500 **Pure White.**
1505 **Blue.**
1510 **Pink and Rose Shades.**
1511 **Mauve.**
1512 **Crimson.**
1515 **Purple.**

Each of the above, ¼ oz., 25c; pkt., 10c.

1520 **Double Mixed.** ¼ oz., 20c; pkt., 10c.

1535 **Vaughan's Special Mixture of Bachelor's Buttons, double and single varieties.** ¼ oz., 25c; pkt., 10c.

### Imperialis (Giant Sweet Sultan) 2½ ft.

This beautiful class is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented, artistic shaped flowers are borne on long, strong stems; when cut and put in water will last for several days in good condition.

1540 **White.**
1545 **Lilacina.** Dark lilac.
1550 **Brilliant Rose.**
1560 **Splendens.** Purple-crimson.
1565 **Deep Lavender.**
1566 **Amaranth.** Rich plum color.

Each of the above, pkt., 10c.

1570 **Imperialis, Mixed, all colors.** ¼ oz., 25c; pkt., 10c.

Centaurea Imperialis Mixed

CENTAUREA—Continued

1590 **Vaughan's Special Mixture of Centaureas** is composed of all the annual Centaureas, and a packet will produce the loveliest cut flowers all summer. ¼ oz., 25c; pkt., 10c.

### Various Centaureas

1480 **Americana.** 3 ft. A splendid native variety; bears immense thistle-like blooms of rosy lavender color. Pkt., 10c.

1485 **Americana Alba.** 2½ ft. Star Thistle. Immense heads of double fluffy blooms, almost pure white. Pkt., 10c.

1575 **Moschata Mixed.** 2 ft. Sweet Sultan, white, red and blue. Pkt., 10c.

1580 **Suaveolens.** 2 ft. (Yellow Sweet Sultan or Grecian Cornflower) Very showy, large, bright yellow flowers; sweetly scented and a popular sort for cutting; lasting well. ¼ oz. 30c; pkt., 10c.

### White Leaved Centaureas

(Dusty Millers for Bedding)

1595 **Candidissima.** 10 in. Thick silvery white leaves. Should be sown early. Pkt., 10c.

1600 **Gymnocarpa.** 1½ to 2 ft. Foliage finely cut of silvery gray color. Pkt., 10c.

**Cineraria Maritima Diamond** is also known as Dusty Miller.

## CENTROSEMA □ = 10 ft.

A hardy vine of rare and exquisite beauty. Bears in the greatest profusion inverted, pea-shaped flowers, and ranging in color from rosy violet to reddish purple, with a broad feathered white marking through the center, while the large buds and the back of the flowers are pure white.

1610 **Grandiflora Butterfly Pea.** Pkt., 15c.

Centaurea Suaveolens (Yellow Sweet Sultan)

## CHEIRANTHUS ✱

1609 **Kewensis (Siberian Wallflower).** 12 in. Flowers brilliant orange-yellow. A biennial but it will bloom freely from seed the first year. Pkt., 25c.

1611 **Linifolius (Alpine Wallflower).** 9 in. Charming hardy annual which may also be treated as a biennial with equal success. Wallflower-like blossoms of an uncommon lilac shade. Pkt., 15c.

## CINERARIA HYBRIDA + 18 in.

The plants produce immense trusses of daisy-like flowers in shades from white through various shades of blue to pink and crimson. As decorative and ornamental plants for winter decoration these take a foremost place, and may be enjoyed by any one possessing an ordinary greenhouse.

1715 **Vaughan's Columbian Mixture.** This is a mixture of the finest strains; the flowers are very large, from 7 to 9 inches in circumference, brilliant colors. Pkt., 60 seeds, 25c.

1720 **Good Mixed.** Pkt., 10c.

1726 **Hybrida Multiflora Nana.** 10 in. A new race producing dwarf plants with masses of small flowers, measuring about ¾-inch diameter, compact heads over small and dainty foliage. The flowers are all self-colored. Pkt., 35c.

1722 **Polyantha Stellata Mixed.** 2 ft. A mixture of blue, red, white and intermediate shades of star-shaped flowers. Pkt., 100 seeds, 25c.

1723 **Feltham Beauty.** Somewhat similar to but dwarfer than Cineraria Stellata, with larger flowers and broader petals, but retaining the true star shape. This mixture has many distinct colors, many having white centers. Pkt., 35c.

## CINERARIA MARITIMA (Dusty Miller)

1730 **Maritima, Diamond.** 16 in. White leaved, for bedding only. Pkt., 10c.

Chrysanthemum
Vaughan's Special Annual Mixed

## CHRYSANTHEMUM □

### Single Flowering Varieties. 20 in.

They produce long, stiff stemmed flowers in attractive shades and color combinations.

1620 **Morning Star.** Petals primrose-yellow with halo of deeper yellow; dark yellow disc. Pkt., 10c.

1625 **Evening Star.** Rich sunflower-yellow, disc dark yellow. Pkt., 10c.

1626 **Eastern Star.** Primrose with brown disc. Pkt., 10c.

1627 **Purpureum W. E. Gladstone.** Rich, velvety purple, yellow ring. Pkt., 10c.

1635 **Burridgeanum.** Pure white petals with zone of rich brownish red and inner zone of yellow surrounding the dark brown disc. Pkt., 10c.

1640 **Golden Feather.** Foliage striking yellow; flower with a crimson ring near center. Pkt., 10c.

1645 **The Sultan.** Rich wallflower-red with a narrow yellow zone around the brown disc. Pkt., 10c.

1650 **Northern Star.** Large pure white fringed petals with canary-yellow zone around a dark brown eye. Pkt., 10c.

1655 **Vaughan's Special Single Mixed.** Showy, flowers of various bright colors. ¼ oz., 25c; pkt., 10c.

### Double Flowering Varieties. 4 ft.

The coronarium varieties are selected strains of compact habit and with fine double flowers.

1656 **Coronarium Double White.** Pkt., 10c.

1659 **—Double Golden Yellow.** Pkt., 10c.

1695 **Vaughan's Special Mixture of Double Chrysanthemums.** ¼ oz., 25c; pkt., 10c.

1700 **Vaughan's Special Mixture of Annual Chrysanthemums.** Single and double sorts in finest mixture including many new varieties not cataloged. ¼ oz., 25c; pkt., 10c.

1705 **Frutescens.** Paris daisy or Marguerite. Large white star-shaped flowers. Pkt. 10c.

The following are valuable for pots:

1710 **Chinese and Japanese Varieties Mixed.** If the seed is sown in February or March, and properly treated, the plants will bloom profusely next fall. Pkt., 100 seeds. 25c.

CLARKIA—See Page 51.

## CLEOME

1800 **Pungens (Spider Plant)** □ 5 ft. A showy garden annual producing curious heads of flowers of bright rose color; of easy cultivation, blooming until late; a good bee plant. The airiness of the Spider Plant lends a touch to the garden which nothing else gives. Pkt., 10c.

## CLIANTHUS

1810 **Dampieri (Glory Pea of Australia)** + 2 ft. The flowers are not very unlike the Erythrina, very freely produced in hanging clusters, bright red with a black spot. Sow seed in sandy soil where the plants are to remain. 15 seeds 25c.

COCKSCOMB—See Celosia cristata.

## COIX

1850 **Lachrymae (Job's Tears)** □ 2 to 4 ft. An ornamental grass with curious seeds which may be used as beads. 1 lb., $1.00; ¼ lb., 30c; 1 oz., 10c.

## COLLINSIA

1870 **Mixed** □ 18 in. All species are brightly colored and excellent for growing in clumps. Blooms early and prefers a dry situation. Pkt., 10c.

CORN RAINBOW—See Zea Japonica.

Clarkia Vaughan's Special Mixture

## CLARKIA □ 2 ft.

An easily grown annual doing well in rather poor soil. The flowering sprays are long and need staking. The double flowers appear in terminal clusters and the axils of the upper leaves. One author accurately describes them when she says they resemble sprays of "Flowering Almond".

1740 **Apple Blossom.** Double apple blossom.
1743 **Brilliant.** Double salmon-scarlet.
1746 **Chamois.** Double.
1748 **Orange King.** Double bright orange scarlet.
1751 **Purple Prince.**
1755 **Queen Mary.** Double rose carmine.
1760 **Salmon-Pink.** Double salmon.
1765 **Scarlet Queen.** Double orange-salmon.
1766 **Vesuvius.** Double fiery scarlet and rose.
1770 **White Prince.** Very double, pure white.
Each of above, pkt., 10c.
1790 **Vaughan's Special Mixture.** Made up especially from the above named varieties. ⅛ oz., 25c; pkt., 10c.

## COBAEA

1820 **Scandens, Cathedral Bells** □ = 30 ft. One of the handsomest and rapid growing climbers. The flowers are bell-shaped and open a clear green, but turn a beautiful purplish lilac. Seed should be sown edgewise. Very vigorous and prolific bloomer.
1825 **Flore Albo.** White.
1830 **Mixed.** White and blue.
Each of the above, pkt., 10c.

## COLLOMIA

1871 **Coccinea** □ 9 in. Hardy annual of compact habit, producing large heads of brilliant orange-red starry flowers; very distinct in color. Pkt., 10c.

## COSMIDIUM

1930 **Orange Crown** □ 2 ft. The flowers are golden yellow with a broad circle of a rich orange around the disc, a pleasing combination. Plants produce a succession of bloom all summer. Pkt., 10c.

Cosmidium Orange Crown

## CONVOLVULUS (Morning Glory) □ =

### Major—Tall Varieties

The Morning Glory is too well known to need a description, and one seldom finds a more satisfactory vine. The amateur gardener can be sure of a fresh supply of bright colored, delicately tinted flowers.

1900 **Mixed, all colors.** 1 lb., $1.00; ¼ lb., 30c; 1 oz., 15c; pkt., 10c.
1905 **Double Mixed.** The flowers are double and semi-double and some are fringed. Pkt., 10c.
1910 **Double Snow Fairy.** The main charm lies in the purity and the quaintness of its blossoms which are pure white and curiously formed, really a flower within a flower. Pkt., 10c.

### Minor—Dwarf or Bush Varieties. 1 ft.

Are very showy and beautiful hardy annual for flower beds and borders, also rockwork; they bloom for a long period and delight in sun.

1919 **Minor Dwarf Blue.** Beautiful blue flowers on a dwarf bushy plant. Fine for edging or rock work. Oz., 25c; pkt., 10c.
1920—**Mixed, all colors.** 1 oz., 15c; pkt., 10c.

CONVOLVULUS MAURITANICUS—See Perennial pages.

## CUPHEA

2000 **Platycentra (Cigar Plant)** ÷ 10 in. Small scarlet and black tubular flowers; dark green foliage. Pkt., 20c.

Coleus Vaughan's Mammoth Rainbow

## COLEUS

1855 **Vaughan's Mammoth Rainbow Mixture** ÷ 2 ft. The handsomest foliage plant obtained from seed. The leaves often measure 10 inches in length and 8 inches in width, heart-shaped and handsomely crimped, toothed and frilled; their color combinations are remarkably rich. Pkt., 25c.
1860 **Fine Mixed.** Pkt., 10c.
1861 **Large Leaved Copper Color.** Pkt., 25c.

## COSMOS □ 4 to 6 ft.

One of the most attractive plants for the garden—blooming in early summer and continuing until frost; grows easily; makes a fine symmetrical bush of feathery green foliage covered with lovely long stemmed flowers.

### Early Flowering Mammoth

1935 **White.** 1945 **Crimson.**
1940 **Pink.**
Each of the above, ¼ oz., 25c; pkt., 10c.
1950 **Early Flowering Mammoth Mixed, all colors.** ¼ oz., 20c; pkt., 10c.
1955 **Early Harbinger Mixed.** Contains new shades such as soft shades of pink, peach, apple-blossom, lavender and other intermediate shades, all giant flowered of the early flowering type. Pkt., 25c.
1956 **Early Express Pink.** An extra early Cosmos flowering in from 45 to 50 days from the time seed is planted. Plant grows about 2½ to 3 ft. high and is covered with medium sized bright pink flowers. Pkt., 25c.
1980 **Klondyke.** A gorgeous orange-yellow flower with very handsome foliage more coarsely laciniated than others. In the Northern States seed should be sown early in pots and the pots plunged in the ground after all danger of frost is over, as the roots have to be confined to produce flowers. Pkt., 10c.

Cosmos Miniature Golden

COSMOS—Continued

1954 **Miniature Golden.** 18 in. The rich, yellow, star-like flowers are very attractive on the deep olive green finely cut foliage. They form neat and compact bushes and bloom very freely. Excellent cut flower. Pkt., 15c.

### Anemone Flowered or Crown and Crested

These differ from the other cosmos in the formation of the center of the flower, which develops a crown or crest, like an anemone, the guard petals remain the same.

1981 **Crimson.** 1983 **White Queen.**
1982 **Pink Beauty.** 1984 **Mixed.**
Each of the above, pkt., 15c.
1970 **Hollywood Star.** It has a center from which issue closed quilled-like petals, the tips of which are cut and slightly curled. It is a mixture of red, white and pink. Pkt., 25c.

### Double Early Flowering

These grow to a height of about three feet, forming a perfect bush, massed with bloom, bearing beautiful double flowers of good size, on long stems. They come about 65 per cent double from seed.

1990 **Pink.**
1991 **White.**
1992 **Crimson.**
Each of the above, pkt., 25c.
1994 Above 3 colors mixed. Pkt., 25c.

## CYCLAMEN (Alpine Violet) + 1 ft.

Charming house plants, with beautiful foliage and rich colored, fragrant flowers; universal favorites for winter and spring blooming. Sow in shallow, wide pans in a compost of peat, loam and sand. Cover seeds but scarcely ¼ of an inch deep with sand or spagnum moss, place in cold frame. Sow thinly so they may remain in seed pans for one year. Then transplant into thumb pots, later shift into large ones. It takes eighteen months to produce flowering plants from seed.

2010 **Giant Flowered Cyclamen.** Mixed, extra choice. 10 seeds, 20c; 20 seeds, 30c; 100 seeds, $1.20.

Cosmos Double Early Flowering Mixed

Three separate colors and mixed. Each, 25c per pkt., as noted above.

Crepis Barbata Rosea

## CREPIS

1998 **Barbata Rosea** □ 18 in. (Hawkweed) showy star-like semi-double flowers of bright rose color. Bushy plant attractive in the garden and useful for cutting purposes. Pkt., 15c.

## CYNOGLOSSUM

2015 **Amabile Chinese Forget-Me-Not.** □ 18 to 24 in. A lovely plant producing large sprays of brilliant blue Forget-Me-Not like flowers. Grows easily and blooms for a long season. A most delightful addition to our list of blue flowers. ⅛ oz., 25c; pkt., 15c.

2016 **Linifolium.** 9 in. Charming white Forget-Me-Not like flowers with silvery foliage. Pkt., 10c.

## CYPERUS

2030 **Alternifolius (Umbrella Plant)** + 1½ ft. Ornamental foliage plant with shining green fronds resembling a miniature palm. Grows in water with rich soil or mud. Fine plants can be grown from seed in less than three months. Pkt. 10c.

## CYPRESS VINE □ = 10 ft.

A very graceful, twining annual climber with delicate, fernlike foliage, and a profusion of star shaped blossoms.

2040 **Mixed Scarlet and White.** ½ oz., 20c; pkt., 10c.

2045 **Ivy-Leaved Scarlet.** Deeply lobed, ivy-like leaves, and small scarlet flowers. Pkt., 10c.

## DATURA (Angel's Trumpet) □ 3 ft.

Handsome plants for subtropical bedding in summer, having large trumpet-shaped fragrant flowers. They should be given a light soil and a sunny sheltered position. Make fine pot plants for the greenhouse.

2100 **Cornucopia (Horn of Plenty).** Immense flowers, triplicate in form, one within the other; color rich violet, with white interior. Pkt., 10c.

2105 **Golden Queen.** Bright yellow flowers.

2110 **Double White.** 2115 **Double Fine Mixed.** Each of the above, pkt., 10c.

Cynoglossum Amabile
Chinese Forget-Me-Not

## DAHLIA □

But few people know Dahlias can be raised from seed and will bloom the first year. The seeds germinate easily and from the very first are strong and sturdy little plants. Plant them in a shallow box or pan early in March or April, transplant them carefully as their growth demands, and keep the soil moderately moist. When all danger from frost is over, plant them in the bed or border in the garden, and from then on they will prove no more trouble than if the tubers had been used instead of seed.

### Single Flowering

2055 **Collarette, Mixed Colors.** 3 ft. Flowers of various colors, adorned with a collar of small petals around the center. Pkt., 10c.

2056 **Coltness Hybrids.** 18 in. Habit neat and compact, blooms from July until frost. The flowers have either flat or slightly fluted petals, vary in size, being nearly all three inches in diameter. The colors are most varied. Pkt., 35c.

2057 **Coltness Gem.** The color is a bright scarlet and the single flowers are produced in abundance. Fine for bedding or growing singly in the smallest gardens. Pkt., 50c.

2065 **Giant Perfection Mixed.** 4 ft. The plants are of strong, robust habit, and produce in great abundance flowers of immense size, of the most bewildering variety of color. Pkt., 10c.

2067 **Stella.** 3 ft. A new form of the Single Cactus type of Dahlia, suggesting the shape of a Starfish, due to the peculiarly recurved shape of the ray petals, which are of a different color on the reverse side, the tints of the latter being generally marbled or watered. Pkt., 25c.

Dahlia Vaughan's Special Mixture

2090 **Vaughan's Special Mixture.** This mixture contains seeds from the best collections in America and Europe and embraces all the various strains of double-flowering Dahlias, such as Show, Pompon, Liliput and Cactus varieties, also the single flowering and striped sorts. Pkt., 60 seeds, 25c.

### Double Flowering

2070 **Double Good Mixed.** 3 ft. Pkt., 10c.

2075 **Double Cactus Flowered Mixed.** 3 ft. With twisted and curled petals. Pkt., 15c.

2080 **Double Best Mixed.** 3 ft. Saved from show and fancy sorts. Pkt., 25c.

2089 **Double Liliput (Pompon).** 1 ft. Small flowered splendid Mixed. Pkt., 15c.

2082 **Hornsveld's Giants.** Wonderful new single and semi-double flowers in many brilliant colors. Pkt., 50c.

See also Novelties.

## DIANTHUS

### (Annual Garden Pinks) □ 1 ft.

The flowers are distinguished for their brilliant, contrasting variety of colors appearing in each flower. The stripes and spots make the clusters stand out distinctly. In our latitude the plants live over winter.

### Single Flowering

2196 **Salmon Queen.** Salmon-scarlet. Pkt., 10c.

2245 **Vaughan's Special Mixture, Single Pinks.** The flowers are extraordinarily large, of handsome form, and embrace the most beautiful colors, ranging from white to the most delicate pink and deep crimson. ¼ oz., 30c; pkt., 10c.

Dianthus Special Double and Single Mixed

DIANTHUS—Continued

### Double Flowering

2255 **Salmon.** A beautiful shade.

2256 **Tom Thumb Brilliant.** Dwarf, bright red.

2272 **Brilliant Rose.**

2280 **Lucifer.** Double orange.

2283 **Violet Queen.** Pale violet.

2285 **Mourning Cloak.** Dark velvety crimson, each petal strikingly edged white.

2290 **Fireball.** Scarlet, compact, floriferous.

2293 **Snowball.** Compact, fringed white flowers.

2295 **Rosalind.** Double rose flowers.

2296 **Midnight.** Double blood-red.

Each of the above, pkt., 10c.

2300 **Vaughan's Special Mixture of Double Pinks.** Selection of the best double pinks in cultivation. Flowers ranging in color through all the brightest and most brilliant shades. ¼ oz., 30c; pkt., 10c.

2305 **Vaughan's Special Mixture of Double and Single Pinks.** This magnificent mixture contains the cream of the Dianthus family and unexpected results may be obtained by planting a package. ¼ oz., 30c; pkt., 10c.

## DIDISCUS COERULEUS

2310 **Lavender Lace Flower** □ 3 ft. Another charming blue annual, with dainty lavender-blue flowers which resemble in form the Queen's Lace Handkerchief of our roadside. Excellent for bedding and a very desirable cut flower. ⅛ oz., 25c; pkt., 10c.

Plant Hunnemannia and Nigella Miss Jekyll together and secure a charming combination of blue and gold in your garden.

Didiscus Coeruleus

Dimorphotheca Aurantiaca Hybrida

## DIMORPHOTHECA □

2320 **Aurantiaca. (Orange African Daisy)** 1 ft. The Marguerite-like blossoms of the African Orange Daisy show a unique rich orange gold, which is rendered more conspicuous by their dark-colored discs. Pkt., 15c.

2325 **Aurantiaca Hybrida.** They vary in color from the purest white to red and blush, white tints, sulphur, lemon and bright golden yellow, light orange, reddish yellow changing to pale salmon-rose. Pkt., 10c.

2321 **Aurantiaca Golden West.** Pkt., 25c.

2322 **—Salmon Beauty.** Pkt., 25c.

2326 **Ecklonis.** Bears elegant white flowers, 3 in. across, with dark blue-spotted center, reverse of petals blue and mauve; in bloom from spring to autumn. Pkt., 15c.

2327 **Pluvialis Ringens.** A dwarfer growing variety than the Aurantiaca, but flowers more freely. The individual flowers are pure white on the inside with a conspicuous blue ring around the center or eye of the flowers. Pkt., 25c.

**DIGITALIS (Foxglove)**—See Colored Perennial Pages.

**DELPHINIUM ANNUAL**—See Larkspur.

## DOLICHOS (Hyacinth Bean) □ = 10 ft.

A rapid-growing annual climber, flowers freely in erect racemes, followed by ornamental seed pods.

2330 **Princess Helen (Daylight).** Snow-white flowers followed by silvery white seed pods. Pkt., 10c.

2335 **Purple Soudan (Darkness).** Attractive rose-violet flowers with dark ruby-purple seed pods. Pkt., 10c.

2340 **Mixed, all colors.** 1 oz., 20c; pkt., 10c.

2345 **Lignosus (Australian Pea Vine).** A rapid-growing evergreen climber, flowering freely in clusters of rose pea-shaped flowers. Pkt., 10c.

Dolichos Daylight and Purple Soudan

## DRACAENA

2350 **Indivisa** □ + 2 ft. Ornamental leaved plants; long, narrow, green-leaved foliage. Pkt., 10c.

## DRACOCEPHALUM

2355 **Moldavicum. (Dragon's-Head).** □ 18 in. It is a native of Siberia, has lace-shaped crenulate leaves, and fragrant bluish violet flowers borne in long nodding racemes from July to October. Succeeds in good ordinary soil and requires to be grown about a foot apart. Belongs to the Lavender order. Pkt. 10c.

**DUSTY MILLER**—See Centaurea and Cineraria.

**ECHINOCYTUS LOBATA**—See Wild Cucumber.

## ECHIUM

2357 **Plantagineum. (Bugloss)** □ 1 ft. A charming annual with an upright stem which carries branches which terminate in the most delightful blue flowers, cup shaped which have a pink tint in early stages. Blooms in July, August. Succeeds in good ordinary soil in sunny border. Pkt., 10c.

## ERAGROSTIS

2359 **Elegans (Love Grass).** □ Of erect growth about 18 inches high. With feathery panicles, nice for cutting. Pkt., 10c.

## ERYSIMUM

2361 **Perofskianum. (Fairy Wallflower)** □ 12 to 18 inches. A particularly attractive annual for growing in masses in beds or in borders. Bears bright orange fragrant flowers in profusion during the summer. One of the showiest and easiest grown of all hardy annuals. Will thrive in fairly good soil. Pkt., 10c.

## ERYTHRINA

2360 **Crista Galli (The Coral Tree)** + 4 ft. A fine plant for south walls with protection, and for subtropical gardening. Produces in summer handsome racemes of rich deep scarlet flowers. Garfield park, Chicago, featured these last summer. Pkt., 15c.

## EUCALYPTUS

2425 **Globulus (Blue Gum)** ÷ Admirable for sub-tropical bedding or greenhouse decoration. Pkt., 10c.

# EVERLASTINGS

Winter bouquets of your own growing make an attractive present for a friend, besides supplying during the long, cold winter, when flowers are scarce, a bit of brightness for your own home. Cut before fully expanded, bunch like sweet peas and hang on a line in a warm, dark, dry room. They will dry thoroughly in ten days.

### Annuals

150 **Acroclinium Roseum.** Double 2 ft. Pkt., 10c.
295 **Ammobium Alatum Grand.** Pkt., 10c.
2525 **Gomphrena** Mixed, all colors. Pkt., 10c.
2810 **Helichrysum (Strawflower).** Vaughan's Special Mixture. Pkt., 15c.
2815 **Helipterum Sandfordii.** Pkt. 10c.
4540 **Rhodanthe.** Mixed colors. Pkt., 10c.
4683 **Salvia Farinacea.** Pkt., 10c.
4795 **Statice Russian (Suworowii).** Pkt., 15c.
4800 **Bonduellii.** Yellow. Pkt., 10c.
4802 **Sinuata True Blue.** Pkt., 10c.
4801 **Sinuata Rosea Superba.** Pkt., 10c.
5849 **Xeranthemum Double Mixed.** Pkt., 10c.
2440 **Everlastings Mixed.** 1 to 2 ft. Pkt., 10c.

### Perennials

7788 **Echinops Ritro (Globe Thistle).** Pkt., 10c.
7795 **Eryngium Planum (Sea Holly).** Pkt., 10c.
7860 **Gypsophila Paniculata Fl. Pl.** Pkt., 25c.
8150 **Lunaria Biennis, or Honesty.** Pkt., 10c.
8345 **Physalis Franchetti** Pkt., 10c.
8520 **Statice Latifolia (Sea Lavender).** Pkt., 10c.

**All the Ornamental Grasses.**

## EUPHORBIA □ 2 ft.

Strong growing annuals, for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; the foliage, however, is exceedingly ornamental.

2430 **Heterophylla (Mexican Fire Plant).** Annual poinsettia resembling in habit and color the beautiful hothouse poinsettia. About mid-summer the center top leaves of each branch turn orange-scarlet. Pkt., 10c.

2435 **Variegata (Snow on the Mountain or Mountain Spurge).** 2 ft. Remarkably distinct plant; very showy with its foliage edged white and green. ¼ oz., 25c; pkt., 10c.

## EUTOCA

2439 **Viscida.** □ 1 ft. A lovely little plant with intense brilliant blue flowers, exceedingly effective in beds and borders, a good bee plant. Pkt., 10c.

> Gentlemen—I have had more success and beautiful flowers with the Vaughan's seeds than any other seeds I have purchased in the last few years. Respectfully,
> MRS. G. W. H.

Escholtzia Vaughan's Special Mixture

## ESCHOLTZIA (California Poppy) □ 1 ft.

The State flower of California. A bright free-flowering plant of low spreading growth with finely cut silvery foliage. The poppy-like flowers are produced from early spring until frost. Sow the seed where the plants are to remain. The California Poppy makes an interesting plant for the foreground of the border, bringing a touch of gold and gray from the foothills of the West.

**Bush**—See Hunnemannia.

2370 **Carmine King.** Beautiful carmine-rose color, both on the interior and exterior of the flower.
2376 **Chrome Queen.** Flowers of lovely soft buff yellow.
2380 **Dainty Queen.** Color tender blush or pale coral pink, deeper towards the edges with a ground of delicate cream.
2385 **Golden West.** Flowers bright yellow and orange, penciled and blotched.
2387 **Mandarin.** Inner side of the petals orange, the outer side brilliant scarlet.
2392 **Mikado.** Flowers lustrous orange-crimson.
2396 **Ramona.** A single flower with frilled edges which gives it an appearance of a semi-double. The color is a pale but glittering coppery gold with pink shadings. Pkt., 15c.
2395 **Robert Gardiner Double.** Orange. Pkt., 25c.
2397 **Rose Cardinal.** Flowers pretty dark rose, inside blush.
2398 **The Geisha.** Orange-red outside, rich golden within.
2405 **Vesuvius,** Wallflower red.
2410 **Double and Semi-Double Mixed.**
Each of the above, except where noted, pkt., 10c.
2415 **Vaughan's Special Mixture.** This mixture includes all the varieties here cataloged of the double and single sorts and is the most complete mixture of these charming annuals in existence. Oz., 75c; ¼ oz., 25c; pkt., 10c.

> Plant Chrysanthemum Coronet with Centaurea Cyanus Double Blue.

Euphorbia Snow on The Mountain

Gaillardia Lorenziana Double Mixed

## GAILLARDIA (Blanket Flower) □ 1½ ft.

One of the most profuse bloomers of the flower garden, the color of the Gaillardia may be termed "sunset" because the flowers run to reds and orange rose-tinted at the base of the petals. The flower heads are terminal and on long stems. The foliage is a good gray-green and fairly abundant.

2465 **Amblyodon.** Deep red. Pkt., 10c.
2466 **Picta Josephus.** Large red, edged yellow. Pkt., 15c.
2467 **Picta Aurora Borealis.** Brown, red and yellow. Pkt., 10c.
2470 **Picta Single Mixed.** Pkt., 10c.
2471 **Picta Indian Chief.** Coppery bronze. Pkt., 15c.
2474 **Lorenziana Rubra.** Beautiful double red flowers. Pkt., 15c.
2475 **Lorenziana Double Perfection Mixed.** ⅛ oz., 25c; pkt., 10c.

**See also Perennial pages.**

## EXACUM ÷

2445 **Affine.** Greenhouse plant 1 to 2 ft. high with numerous bluish lilac flowers with yellow stamens of a very delicate fragrance. When sown in March or April, blooms from August or September until late in season. Excellent for basket use and may be used like a primula or a begonia. Pkt., 50c.

**FORGET-ME-NOT**—See Myosotis.
**FOUR O'CLOCK**—See Mirabilis.
**FOXGLOVE**—See Digitalis.

## FREESIAS □ 12 in.

These are well known for their delightful fragrance. Seeds should be sown in flats and transplanted after the bulb has formed. Will bloom the first year from seed.

2450 **Refracta Alba.** White. Pkt., 10c.
2455 **Rainbow Hybrids.** Very attractive because of their unique colorings and shadings. Pkt., 15c.
2456 **Hybrida Tuberengii.** Richest shades, very large flowering hybrids. Pkt. 35c.

## FUCHSIA HYBRIDA (Ladies' Eardrop)

2460 **Double and Single Mixed ÷ 1 to 4 ft.** Well-known greenhouse plant, blooms from seed first year if planted early. Pkt., 20c.

## GAMOLEPSIS □

2478 **Tagetes.** An annual of wiry growth, a foot or less high, allied to the Chrysanthemum. Flowers daisy-like, bright yellow or orange, ¾ in. across and freely produced. Of easiest culture from seeds in sunny places and excellent for borders or rock work where low mass effects are desired. Pkt., 15c.

## GAURA □

2480 **Lindheimeri.** 3 ft. A graceful plant with strong leafy stems, bearing numerous spikes of white flowers flushed with pink from July until frost. Especially sun-loving and drouth-resisting. A lovely combination is to plant Gaura in front of Hollyhocks with a few plants of Salvia farinacea mingled with the Gaura. The flowering seasons supplement admirably. Pkt. 10c.

## GAZANIA □

2484 **Longiscapa.** 6 to 8 in. Extremely free flowering annual. The flowers, 2¼ in. in diameter, are a lovely golden yellow color with a brown silvery white spotted zone surrounded by a blackish brown ring. Of easy culture. Pkt., 15c.

## GERANIUM ÷ 1 to 2 ft.

These grow readily from seed the first year and produce blooming plants the first summer. There is a great deal of pleasure in watching them develop from seed, and there is always the chance of thus securing something new.

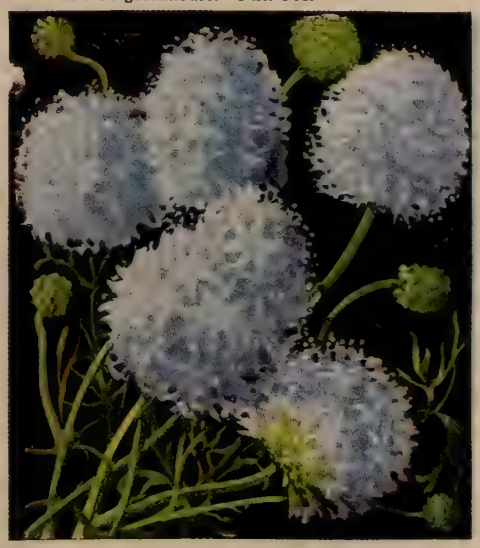
2485 **Zonale Varieties.** Saved from a choice collection. Pkt., 10c.
2490 **Large Flowering, Newest Varieties Mixed.** Pkt.; 50 seeds, 15c.
2495 **Apple-scented.** Leaves fragrant. Pkt., 25 seeds, 15c.
2500 **Lady Washington (Odier).** Large flowers, beautifully blotched. Pkt., 10 seeds, 50c.

## GERBERA (Transvaal Daisy) ÷ 24 in

2504 **Jamesoni Hybrids.** The most perfectly formed daisy-like blossoms, 2 to 4 inches across, being borne on long stems, are unsurpassed as cut flowers. For garden culture in cold climates the plants are wintered over in cold frames. They are easily grown from seed and will commence flowering the first year. The colors include a wilderness of tints, from dove white through amber, pale yellow, orange, salmon, rose, cerise and ruby-red to violet. It has made quite a "hit" when exhibited at recent flower shows. Pkt., 25 seeds, 25c.

## GESNERIA

2505 **Robusta Perfecta Hybrids ÷.** A fine pot plant. The flowering spikes carry numerous bright pendulous blooms, including pure white, yellow, salmon-pink, orange, rose-carmine, and rich crimson. It belongs to same class as the Gloxinias and needs same culture in greenhouse. Pkt. 50c.



Gilia Blue Thimble Flower

## GILIA □

2532 **Capitata (Blue Thimble Flower).** 2 ft. Beautiful bushy plant of erect habit with fine feathery foliage covered all summer with rich lavender-blue flowers, 1 inch across, much like Scabiosa. Makes a good cut flower as the blooms last well in water. May also be used as everlasting, as the flowers retain their beautiful color when dried. ¼ oz., 25c; pkt. 10c.
2530 **Mixed.** 1 ft. Exceedingly graceful early flowers and valuable for bees. Charming in the flower border and for cutting in spring and summer. Pkt., 10c.
2533 **Coronopifolia Mixed (Standing Cypress).** Very leafy, the divisions being needle-like about one inch long. The flowers are 1½ inches long, trumpet-shape, borne along the side of the summit of the stem. The colors include vermilion, salmon, apricot, rich pinks and pure yellow. Pkt., 15c.
2531 **Tricolor.** "Bird's Eyes." 1 ft. Flowers pale lilac, yellow toward the center, with five purple spots. Pkt., 15c.

## GLADIOLUS □

2540 **Many Varieties Mixed.** 3 ft. Can be grown to produce flowers first year if sown early and will make splendid bulbs for second year blooming. Pkt., 10c.
2545 **Primulinus Hybrids.** 30 in. Flowers of distinct form and possess the clearest tones and tints of color to be found. The spikes are tall and graceful. 100 seeds, 25c.

## GLOXINIA

2560 **Vaughan's International Mixture. + 12 in.** Magnificent house-blooming plants, with handsome bell-shaped flowers in a diversity of the richest colors. Pkt., 25c.
2565 **Fine Mixture.** Pkt., 15c.

Godetia Gladiolus Flowered

## GODETIA □

An attractive hardy annual, deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of satiny texture in many rich and varied colors. They do best in a rather poor soil.

2570 **Duchess of Albany.** 16 in. Pure white.
2573 **Gloriosa.** 10 in. Deep blood-red.
2576 **Rosamunde.** 8 in. Fiery rose.
2579 **Lady Satin Rose.** 10 in. Bright carmine.
2583 **The Bride.** 24 in. White and red.
2584 **Whitneyi.** 15 in. Double Azalea flowered pink blossoms. Excellent for pots.
2587 **Many Sorts and Colors Mixed.**
2598 **Dwarf Sorts Mixed.** 10 in. Neat globular.
Each of the above, pkt., 10c.

### Gladiolus Flowered. 24 in.

Are quite different from other sorts, inasmuch as they throw up flower spikes much like a gladiolus only more graceful, which are closely set by double flowers in bright and attractive colors

2588 **Carmine.** 2590 **Rose.**
2589 **Rosy Morn.** 2593 **Mauve**
2591 Mixed, colors noted above.
Each of the above pkt., 10c.

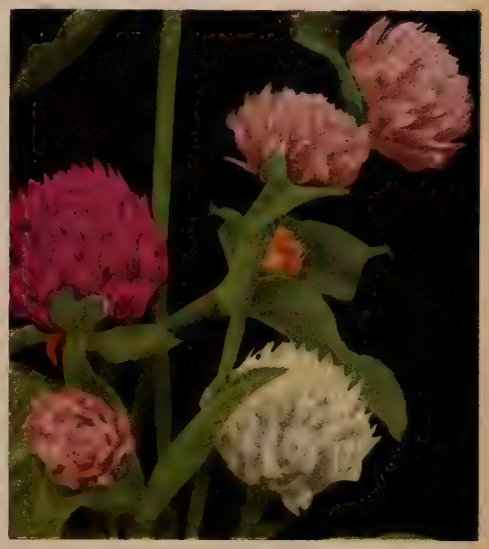
## GREVILLEA

2675 **Robusta (Silk Oak) ÷ 1 to 5 ft.** Grows rapidly from seed, and is pretty in all stages of growth; with its long, drooping, silky foliage. Excellent for fern dish use. In California and Florida develops into an ornamental tree. Pkt., 10c.

## GOMPHRENA (Globe Amaranth) □ 12 in.

A showy annual everlasting with clover-like heads.

2506 **Globosa Alba.** 2515 **Globosa Pink.**
2509 **Flesh.** 2525 **Mixed, all colors.**
2510 **Rubra.** Red.
Each of the above, pkt., 10c.
2520 **Orange.** Blossoms resemble a ripe strawberry in color and markings. Start in sandy soil in gentle bottom heat. Pkt., 15c.



Gomphrena for Winter Bouquets

Gourds Mixed

## GOURDS □ = 20 ft.

The blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls.

2600 **Apple-shaped.** Beautifully striped.

2605 **Bottle.** The original Thermos bottle.

2608 **Calabash or Pipe Gourd.** Odd-shaped fruit which is used to an advantage in making pipes.

2610 **Dipper.** Fruit makes an excellent dipper and may be used for wren's nests.

2615 **Dishcloth or Towel. Luffa Acutangula known as Sing-kwa.** The fruit is eaten when young, being cooked like squash. Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left.

2618 **Hercules Club.** Fruit grows 3 to 4 ft. long.

2625 **Japanese Nest Egg.** May be used as nest eggs.

2627 **Orange.** The well known Mock Orange.

2630 **Ornamental Pomegranate or Queen's Sweet Pocket Melon.** Fruit deliciously perfumed and may be carried in the pocket or laid among linens. This is true stock.

2635 **Pear-Shaped.** Striped yellow and green.

2640 **Sugar Trough.** Thick shells, very durable.

2643 **Spoon.** Small ball-shaped fruit with slender necks, deep orange. By slicing off a part of the side of the bowl a satisfactory spoon may be made.

2645 **Turk's Turban.** Odd brightly colored fruit. Each of the above pkt., 10c.

2650 **Small Fruited Varieties Mixed.** Pkt., 10c.

2660 **Mixed, all varieties.** 1 oz., 30c; ½ oz., 20c; pkt., 10c.

Any 3 pkts. of the above, 10c.

Gypsophila, Angel's Breath

## GRASSES

2670 **Ornamental Mixed** □ 2 to 5 ft. These are most useful for winter bouquets when combined with Everlasting flowers. They are easily grown in any soil. Pkt., 10c.

### Ornamental Grass Collection

235 **Agrostis Nebulosa.** Pkt., 10c.
1149 **Briza Gracillima Minor.** Pkt., 10c.
1150 **Briza Maxima.** Pkt., 10c.
1153 **Bromus Brizaeformis.** Pkt. 10c.
1850 **Coix Lachrymae.** Oz., 10c.
2030 **Cyperus Alternifolius.** Pkt., 10c.
2359 **Eragrostis Elegans.** Pkt., 10c.
2848 **Hordeum Jubatum.** Pkt. 15c.
2972 **Lugarus Ovatus.** Pkt. 15c.
3920 **Pennisetum Longistylum.** Pkt., 10c.
3925 **Pennisetum Rueppelianum.** Pkt., 10c.
5654 **Tricholaena Rosea.** Pkt., 10c.
6175 **Zea Japonica Quadricolor Perfecta.** Pkt. 10c.

## GYPSOPHILA □ 2 ft.

Graceful plants of light fairy-like growth. Much in demand for cutting and combining with other flowers for bouquets and vases.

2680 **Elegans Grandiflora Alba (Angel's Breath).** This is an improved large-flowering, pure white, of free, easy growth. Several sowings should be made during the season to keep up a supply. Oz., 30c; ½ oz., 20c; pkt., 10c.

2682 **Elegans Vivid Rose.** ¼ oz., 25c; pkt., 10c.

2683 **Elegans Crimson.** ¼ oz., 25c; pkt., 15c.

2685 **Elegans Rosea.** Soft pink. ¼ oz., 25c; pkt., 10c.

2690 **Muralis.** 6 in. A lovely little rock or edging plant with rose-pink flowers. Pkt., 10c.

Helichrysum Vaughan's Special Mixture

## HELICHRYSUM (Strawflower) 32 in.

Helichrysums are an ornament to the garden when growing, and are everywhere prized for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place.

2770 **Silver Ball.** 2785 **Rose Queen.**
2775 **Fire Ball.** 2790 **Salmon Queen.**
2780 **Golden Ball.** 2795 **Violet Queen.**

Each of the above, pkt., 10c.

2800 **Mixed, all colors.** Pkt., 10c.

2810 **Vaughan's Special Mixture.** This mixture of Helichrysum in an improved large-flowered strain containing many new and exquisite shades. ¼ oz., 25c; pkt., 15c.

VAUGHAN'S SPECIAL

**HAWKWEED—See Crepis.**

**HELIANTHUS**—See Sunflower.

## HELIPTERUM

2815 **Sanfordii.** □ 1½ ft. Large heads of bright yellow everlasting flowers. Will bloom in 8 to 10 weeks from seed and flower continuously until frost. Pkt. 10c.

## HERNIARIA

2833 **Hirsuta.** 2 in. □ Valuable ground cover for places where grasses fail. Makes a dense mat of moss-like foliage with inconspicuous greenish white flowers. Pkt., 15c.

Heliotrope Mammoth Mixed

## HELIOTROPE ÷ 2 ft.

Heliotrope is a universal favorite on account of its delightful fragrance and duration of bloom, flowering equally well as bedding plants in summer, or as pot plants in the house during the winter. Seed sown in the Spring makes fine plants for bedding out, and are as easily grown as Verbenas.

2820 **Mammoth Mixed.** Flowers of great size and ranging in shade from dark blue to lilac. Pkt., 15c.

2825 **King of the Blacks.** Deep purple, almost black. Pkt., 15c.

2826 **Madam Bruant.** This is a dwarf-growing variety with violet-blue flowers with white eyes. Very distinct, good for bedding. Pkt., 25c.

2827 **White Lady.** A large flowering pure white variety. Very fragrant. Pkt., 15c.

2830 **Fine Mixed.** Pkt., 10c.

## HOLLYHOCKS (Annual) □ 5 ft.

The perennial varieties flower only the second year if grown from seed; these annual kinds, however, bloom the first year, and if sown in the open ground in May, they will be in flower in August, but if started indoors and set out in May, they will bloom in July.

2840 **Everblooming Single Mixed.** Large single flowers, exhibiting every shade known in Hollyhocks. Pkt., 10c.

2845 **Everblooming Double Mixed.** Double and semi-double. Pkt., 10c.

(For other Hollyhocks see Perennial List printed in colors.)

## HUNNEMANNIA

2860 **Fumariaefolia (Bush Escholtzia, or Santa Barbara Poppy)** □ 1½ ft. Another sun-kissed golden yellow poppy, too little known. Is pleasing both in the border and as a cut flower. The plants grow into a shrubby bush and produce their large cup shaped flowers 3 in. across on stems 12 in. long. The color is of clear, bright yellow; the petals are broad and crinkled. ¼ oz., 25c; pkt., 10c.

Hunnemannia, Santa Barbara Poppy

Japanese Morning Glory
Vaughan's Special Mixture

## HORDEUM

2848 **Jubatum. (Squirrel's Tail Grass)** □ 2 ft. Produces graceful spikes of inflorescence furnished with feathery bristles somewhat like the tail of a squirrel. Should be grown in ordinary soil in groups or rows in sunny borders. Pkt. 15c.

**HONESTY**—See Lunaria in Perennial pages.

**HYACINTH BEAN**—See Dolichos

## HUMULUS JAPONICUS (Japanese Hop)

Rapid summer climber; the foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc. Heat, drought and insects do not trouble it.

2850 **Green Leaved.** Pkt., 10c.

2855 **Variegated Leaved.** The large, handsome leaves are beautifully variegated white, green and yellow. Pkt., 10c.

## ICE PLANT

2870 **Mesembryanthemum Crystallinum** □ 6 in. Foliage very ornamental, being covered with ice-like globules and prized for garnishing; flowers, small, pinkish-white. A valuable plant for dry, sunny situations on banks, rockwork, old walls and ruins, etc., also for sunny borders. Pkt., 10c.

2871 **Mesembryanthemum Tricolor.** 1 ft. Flowers yellow, blood-colored inside, with brown anthers. Pkt., 10c.

## IMPATIENS (Zanzibar Balsam)

÷ □ 1½ ft.

One of the prettiest plants for pot culture and also for outdoor planting in a half-shaded situation. Remarkable for its long duration of bloom. It is very charming for winter blooming.

2875 **Holstii.** Of rapid and vigorous growth and producing large flowers of a brilliant salmon-scarlet. Pkt., 15c.

2880 **Holstii Hybrids.** They range in color from pink through the red shades to purplish violet. Pkt., 15c.

2881 **Sultani.** Bright rose. Pkt., 15c.

2882 **Sultani Hybrida.** Colors range from pale pink to dark crimson. Pkt., 15c.

## IONOPSIDIUM

2890 **Acaule (Violet Cress)** □ 3 in. A lovely miniature rapid-growing and early flowering plant, forming dense tufts of foliage smothered in tiny, pale lilac flowers. Pkt., 10c.

## ISOLOMA

2960 **(Hirsutum Multiflorum Hybridum)** + 12 to 18 in. The large leaves, which are of a texture similar to those of the Gloxinia, are of a rich dark green; the reverse of them, as well as the flower stalks, are covered with bright red hair. The flowers are produced in abundance and in various colors and color combinations. Seed sown in January or February will bloom in June or July, and will continue to flower until winter without cessation. This is a most desirable pot-plant. Pkt., 50c.

**JOB'S TEARS**—See Coix Lachrymae.

## KAULFUSSIA

2970 **Amelloides.** □ 6 to 12 in. An excellent annual of easy culture with aster-like blue flowers. Pkt., 10c.

## LAGURUS

2972 **Ovatus.** □ **(Hare's Tail Grass)** 8 to 12 in The plant has somewhat broad leaves and a dense hairy inflorescence resembling a Hare's tail. Will grow in ordinary soil. Pkt. 15c.

## IPOMOEA □ = 20 ft.

Beautiful rapid annual climbers. Foliage very dense and in some kinds of remarkable shape. The flowers in their wide range of delicate coloring are poised on slender stems. Many of the sorts open only when the sun rises, others when the sun sets. Some are fragrant. Seeds should be soaked in warm water for 24 hours before sowing to assist rapid germination. The seeds about the size of a pea should be notched with a file before soaking.

2895 **Bona Nox (Evening Glory).** Violet flowers. Pkt., 10c.

2900 **Coccinea (Star Ipomoea).** Small scarlet flowers in great profusion. Pkt., 10c.

2905 **Mexicana Grandiflora Alba (White Moon Flower).** Covered with large white flowers every evening and cloudy day. Seeds should be started inside. Oz., 50c; pkt., 10c.

2910 **Mexicana Grandiflora, Giant Pink.** Soft lilac-pink flowers. Pkt., 10c.

2915 **Imperialis (Japanese Morning Glory), Fine Mixed.** The Japanese Morning Glory requires a warm situation to do well. The south side of a wall or building where the plants are protected from the north and west winds will mostly be found beneficial for these vines. 1 lb., $1.50; ¼ lb., 55c; 1 oz., 20c; ½ oz., 15c; pkt., 10c.

Ipomoea Early Flowering Heavenly Blue

2941 **Early Flowering Rubro Coerulea (Heavenly Blue).** The flowers measure from 3½ to 4 in. across, sky-blue with a white throat. They are profuse bloomers and during a long season the vines are a mass of baby-blue blossoms. Sow two seeds in a two inch pot and when thoroughly established and the weather is favorable, probably towards the end of May, the seedlings may be transplanted directly into the ground where they are to remain. A favorite of Mrs. Francis King. Pkt., 25c.

2925 **Vaughan's Special Mixture, Japanese Morning Glories.** The colors run from snow-white through all possible shades of blue and red, from palest pink to darkest reds and purples. Flowers are streaked, mottled and bordered in wonderful fashion. The leaves are also very handsome; ivy-like and heart-shaped, some are rich green, while others are streaked and marbled with white or yellow. ¼ lb., $1.00; 1 oz., 30c; ½ oz., 20c; pkt., 10c.

2950 **Setosa (Brazilian Morning Glory).** The stems and leaf stalks are covered with reddish brown hairs. The deeply lobed leaves are about 9 inches across; flowers about 2 inches in diameter, of delicate texture, tinted pink with a five-pointed star of satiny pink, and are followed by curious seed pods. Pkt., 10c.

## LAVATERA □ 2½ ft.

The Lavateras or Annual Mallows are showy and effective plants, covered during the entire summer with large gay flowers. For large borders and cutting they are very desirable.

2985 **Splendens Alba.** Silky, pure white Pkt., 10c.

2990 **Splendens Rosea.** Bright rose flowers. Pkt., 10c.

2991 **Splendens.** Mixed. Pkt., 10c.

Have you tried Fall Planting of annual flower seeds? It is very interesting and one secures earlier flowers.

Kochia Childsii (Burning Bush)

## KOCHIA

2965 **Childsii** □ 2½ ft. It resembles a close-clipped ornamental evergreen. The globe-shaped pyramidal bushes are close and compact and of a pleasing light green color. The plant may be grown singly or in the form of a hedge or background. In early autumn the whole bush becomes carmine or blood-red. Flowers small and numerous, but not conspicuous. ½ oz., 15c; pkt., 10c.

**KUDZU VINE**—See Pueraria.

**LAVENDER LACE FLOWER**—See Didiscus.

## LAYIA

2995 **Elegans (Tidy Tips).** □ 1 ft. California annual belonging to the Daisy order. A graceful species with hairy glaucous foliage, has fairly large yellow and white flowers. Succeed in light or sandy soil containing plenty of decayed cow manure, and in a sunny position. Should be grown in groups. Pkt. 10c.

## LEPTOSIPHON

3000 **French Hybrids.** □ 10 in. Free flowering hardy annuals, useful for edging and rockwork. Plants are thickly studded with charming bright flowers of various colors. Pkt. 10c.

## LIMNANTHES

3016 **Douglasi. (Marsh flower).** □ 6 in. Is a very showy California species bearing white and yellow fragrant flowers in profusion from June to August. Makes a most attractive display when grown in masses in beds or as edgings to borders. Bees are very partial to its flowers. Does best in rich, moist soil in partially shaded positions. Pkt. 15c.

In making up your 1932 Budget do not forget your Garden Needs.

White Moonflower

Lantana Hybrida Mixed

## LANTANA

2975 **Hybrida, Mixed** + 2 ft. Shrubby plant with Verbena-like flowers in shades of white, red and yellow. May be grown in pots or set out in summer; remains in bloom late in autumn. They have an agreeable aromatic perfume. Pkt., 10c.

2980 **Dwarf Hybrids.** Mixed. Pkt., 15c.

## LARKSPUR □

Larkspurs, or annual Delphiniums, bloom quickly from seed sown in the spring and their fine flower-spikes are exceedingly graceful and attractive in the garden. They furnish the finest cutting material.

### Double Stock-Flowered 3 to 4 ft.

| | | | |
|---|---|---|---|
| 2120 | **Dark Blue.** | 2135 | **Lustrous Carmine (Newport Pink).** |
| 2121 | **Dark Rose.** | | |
| 2127 | **Flesh Pink.** | 2140 | **Sky-Blue.** |
| 2130 | **Lilac.** | 2145 | **White.** |

Each of the above, ⅛ oz., 25c; pkt., 10c.

2124 **Empress Rose.** A rich pink changing to hermosa pink. It is everblooming. Superbranching Larkspur grows 6 ft. tall. Pkt., 15c.

2129 **La France.** The flowers are a pleasing salmon-pink, very large and double, well-placed on long stems. Pkt., 15c.

2131 **Los Angeles.** A richer color than La France, a shade between salmon and rosy scarlet. Pkt., 15c.

2150 **Stock Flowered Mixed,** all colors. Oz., 60c; ¼ oz. 20c; pkt., 10c

2160 **Dwarf Rocket Mixed.** 2 ft. Pkt., 10c.

**Emperor** strain is a dwarf branching double stock flowered variety growing about 24 in. high.

2163 **The Empress.** Salmony pink. Pkt., 15c.

2164 **Pink Delight.** Same charming shade as the Larkspur Stock Flowered Exquisite Improved. Pkt., 15c.

2165 **Emperor Mixed.** Produces an abundance of long, slender spikes in the most delicate colors. Pkt., 10c.

Annual Larkspur Vaughan's Special Mixture

LARKSPUR—Continued

**Improved Giant Hyacinth-Flowered.** The plants grow in one big spike, broad at the base and tapering to a point at the top, resembling the best of the English type of perennial Delphinium.

| | | | |
|---|---|---|---|
| 2171 | **Blue** | 2174 | **Purple** |
| 2172 | **Lilac** | 2175 | **White** |
| 2173 | **Pink** | 2176 | **Mixed,** all colors |

Each of above, Pkt., 10c.

2170 **Vaughan's Special Mixture of Annual Larkspurs.** A charming mixture containing all the bright and delicate shades, makes wonderful cut flower material and should be planted generously. 1 oz., $1.00; ¼ oz., 30c; pkt., 10c.

See also Perennial pages and Novelties.

## LINARIA

3017 **Maroccana Hybrida Excelsior, Mixed.** □ 1 to 1½ ft. This is a hardy annual with small dainty flowers resembling miniature Antirrhinums and in addition each flower has a long Columbine-like spur. It makes a nice cut flower and the colors range through crimson and gold, pink, mauve, dark blue and chamois and rose, with many lighter art shades. Blooms in about eight weeks from seed. Pkt. 15c.

## LINUM □

3019 **Grandiflorum Coeruleum.** 1½ to 2 ft. Annual blue flax. Dainty flowers of pure pale blue. Pkt. 10c.

3020 **Grandiflorum Rubrum (Crimson Flax)** 2 ft. One of the most brilliantly colored of summer annuals, flowers glowing crimson-rose. Very beautiful in beds and borders, and may be had in bloom from May to October by successive sowings. ¼ oz., 25c; pkt., 10c.

Leptosyne Maritima

## LEPTOSYNE □

3010 **Stillmani.** 1½ ft. One of the quickest annuals, blooming within five weeks from date of sowing, and the golden yellow cosmos-like flowers continue in perfection for a long period. Excellent for cutting. Pkt., 10c.

3015 **Maritima.** (Sea Dahlia.) 20 in. A cliff plant from California with graceful feathery foliage and large Dahlia-like flowers, yellow with golden center. Fine for cutting. Treat as a half-hardy annual and give a sunny situation. Pkt., 10c.

## LOPHOSPERMUM

3072 **Scandens. (Climbing Foxglove.)** = ÷ 10 ft. An exceedingly handsome half-hardy climber with large pink flowers. Pkt., 25c.

## MALOPE (Mallow-Wort) □ 2 ft.

Showy plants for large mixed flower and shrubbery borders. The flowers are large and handsome.

3115 **Alba.** Large white flowers. Pkt., 10c.

3120 **Rosea.** Flowers large, blush, shaded pink toward center. Pkt., 10c.

## MATRICARIA □

3205 **Capensis Fl. Pl. (Feverfew)** 3 ft. Neat, small, double white quilled flowers, well adapted for bedding and cutting. They are perennials in mild climate, but in our latitude are treated best as annuals. Pkt., 10c.

3208 **Eximia, Golden Ball.** 1 ft. Of compact habit, suitable for edging, with very striking double yellow flowers. Pkt., 10c.

3209 **Eximia Snowball.** 10 in. Profuse blooming bedding plant, double white flowers. Pkt. 10c.

Lobelia Bedding Queen

## LOBELIA ERINUS COMPACTA □

This charming class forms compact little bushes and are fairly sheeted with bloom throughout the season. Highly desirable for edgings, ribbon bedding and garden decoration as well as for pot culture.

3040 **Bedding Queen.** 4 in. Dwarfest, best for ribbon bedding. Flowers deep purplish-violet, with clear white eye. Pkt., 10c.

3045 **Crystal Palace Compacta.** 4 in. Deepest blue, dark foliage. Pkt., 10c.

3050 **Emperor William.** 4 in. Clear sky-blue, with green foliage. Pkt., 10c.

3055 **Pumila Rosea.** Dwarf pink. Pkt., 10c.

3056 **Pumila Alba. Snowball,** white. Pkt., 10c.

3067 **Tenuior.** Large flowered. 16 in. Dark blue. Pkt., 15c.

3070 **Mixed colors.** ⅛ oz., 15c; pkt., 10c.

The following varieties are especially effective in hanging baskets or window boxes, where a long drooping effect is desired.

3051 **Prima Donna.** 10 in. Rich velvety crimson. Pkt., 15c.

3060 **Speciosa.** 10 in. True dark blue, dark foliage. Pkt., 10c.

3059 **Speciosa Superba Royal Purple.** 10 in. Dark foliage and stems, flowers deep navy blue with white eye. Pkt. 10c.

3061 **Hamburgia.** Sky-blue with white eye. Pkt., 10c.

3065 **Sapphire.** Large, deep blue flowers, with a pure white eye which occupies one-third of the corolla. Pkt., 15c.

**LUPINUS—See Next Page.**

## MARTYNIA □

3211 **Fragrans.** 2 ft. Sweet-scented half-hardy annual with woolly foliage and large mauve-colored flowers. Pkt., 10c.

## MATTHIOLA

3212 **Bicornis (Evening-scented Stock)** □ 15 in. Lilac flowers which in the morning, evening and after a shower emit a delicious perfume perceptible at a considerable distance. 1 oz., 30c; pkt., 10c.

## MAURANDIA

3215 **Mixed** □ = 10 ft. Slender grower and abundant bloomer. Very desirable for greenhouse and garden. Elegant Gloxinia-like flowers, which range through white, rose, blue and purple in color. Pkt., 10c.

3214 **Barclayana.** Blue. Pkt., 15c.

## MELOTHRIA

3220 **Scabra (Musk Vine)** □ = 10 ft. Blooms in clusters; flowers small, white and star-shaped, with a strong musk fragrance; leaves green, small and glossy. May be cut down to 6 inches after summer's growth, potted and taken inside. Fruit resembles tiny watermelons. Pkt., 10c.

## MIMULUS □

3275 **Moschatus (Musk Plant)** 10 in. Old fashioned plant of bushy habit with tiny yellow flowers. Fine pot plant. Pkt., 25c.

3280 **Tigrinus (Monkey Flower) Queen's Prize, Single Mixed.** 1 ft. Dwarf bushy plants, with large Gloxinia-like flowers, ranging in color through white, pale yellow, golden, flesh, rose, crimson and maroon; handsomely blotched and striped. Does best in partial shade. Pkt., 10c.

Lupinus Tall Annual Mixed

## LUPINUS □ 2 ft.

Free flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers. The fine, dark, glossy foliage of the Lupin makes an admirable foil and background for the long blooming spikes of blue, white, yellow and rose; valuable for mixed borders, beds and for cutting; prefers a little shade.

3075 **Hartwegii, White.** Pure white flowers.
3080 **—Oxford Blue.** Dark blue.
3085 **—Cambridge Blue.** Sky blue.
3090 **—Roseus.** Rose colored flowers.
3100 **Subcarnosus (Texas Bluebonnet).** 15 in. Charming bushy plants. The flowers are of a delightful blue, with a distinct heart shaped blotch or eye of a deep rosy flesh shade in the centre of the standard.
3095 **Annual Yellow.** Beautiful canary yellow. Each of the above, ¼ oz., 30c; pkt., 10c.
3105 **Tall Annual Varieties, Mixed.** 1 oz., 30c; pkt., 10c.
3110 **Dwarf Annual Varieties, Mixed.** 1 ft. Pkt., 10c.
(See also Perennials.)

## MIMOSA

3270 **Pudica (Sensitive Plant)** □ 1 ft. Curious and interesting, pinkish white flowers; the leaves close and droop when touched or shaken. Pkt., 10c.

**MORNING GLORY**—See Convolvulus and Ipomoea.

**MOURNING BRIDE**—See Scabiosa.

**MUSK PLANT**—See Mimulus.

## MARIGOLD (Tagetes) □

In late summer, when many bedding plants are past their prime, Marigolds afford a wealth of color that is simply invaluable. The African varieties produce large self-colored blossoms on tall plants; the French are smaller, but the colors and markings are very interesting, some of the varieties being elegantly striped and spotted. The Single French and the Dwarf Single French Marigolds hold the chief place in the class.

Marigold Vaughan's Special Tall Mixed

MARIGOLD—Continued

### Double Tall Varieties 30 in.

3125 **Eldorado.** Extremely large imbricated double flowers in yellow shades. Pkt., 10c.
3130 **Lemon Queen.** These are lemon color, but the formation of the flower is exactly like the Orange Queen. ⅛ oz., 25c; pkt., 10c.
3135 **Orange Queen.** Large, perfect, double quilled flowers of a rich, deep, golden orange color. Very attractive. ⅛ oz., 25c; pkt., 10c.
3136 **Vaughan's Special Mixture** of Tall French varieties. Pkt. 10c.
3145 **French Double Golden Yellow.** Pkt., 10c.
3146 **French Double Lemon Yellow.** Pkt., 10c.
3150 **Vaughan's Special Mixture Tall Marigolds.** This mixture includes both the African and French sorts. A packet will give you flowers of enormous size in a wonderful assortment of color, in shades of yellow, cream, orange, rusty brown, old gold, etc. ¼ oz., 20c; pkt., 10c.
3155 **Tall French Striped.** Flowers have a yellow ground, with rich brown markings. Pkt., 10c.
3157 **Tall French Josephine.** Single dark brown with an edging of old gold, and a glint of crimson, with petals of rich velvety texture, borne on long stems. Pkt. 10c.

### Double Dwarf African

3160 **Mixed (Pride of the Garden).** 15 in. Immense golden yellow flowers, compact dwarf habit forming dense bushes. Pkt., 10c.

### Liliput Dwarf Double 8 in.

Bushy plants covered with small flowers excellent for edging.

3161 **Brown** Pkt. 10c
3162 **Golden** Pkt. 10c
3163 **Sulphur** Pkt. 10c.

Marigold Vaughan's Special Dwarf Mixture

### Dwarf French Double Sorts 10 in.

3164 **Dark Brown.**
3167 **Gold Ball.**
3165 **Gold Striped.** Velvety maroon, striped gold.
3168 **Lemon.**
3166 **Robert Beist.** An unique saturated warm shade of shining purple scarlet which is new in Marigolds.
3169 **Yellow spotted Brown.**
3170 **Yellow with Brown Margin.**
Each of the above, packet 10c
3175 **Vaughan's Special Mixture of Dwarf Marigolds, Double and Single Varieties.** These dwarf, compact strains are very attractive, each plant being covered with hundreds of small, bright flowers. ¼ oz., 20c; pkt., 10c.

### Single Dwarf Varieties

3178 **Fire Cross.** Golden yellow with large brown spots, new. Pkt., 15c.
3180 **Gilt Edge.** 8 in. Velvet maroon, edged with yellow. Pkt., 10c.
3185 **Golden Star.** Flowers have golden yellow petals with purple-red streaks radiating from the center. Pkt., 10c.
3190 **Legion of Honor.** 8 in. Flowers rich golden yellow, marked with velvety brown. Best for edging Pkt., 10c.
3200 **Mexican Marigold (Signata Pumila.)** 10 in. A miniature Marigold forming compact little plants and completely covered with flowers, which are bright yellow with brown stripe down the center of each petal. Very striking for edgings. Sow the seed in spring in boxes and transplant. Pkt., 10c.

Marvel of Peru (Four o'Clocks) Mixed

## MARVEL OF PERU (Four o'Clocks) 2 ft.

This is another good old-fashioned flower of bushy habit, bearing hundreds of flowers during the season of white, yellow, crimson and violet. Very charming when used as a hedge plant, rivaling the privet, with its glossy foliage very closely set and dotted all over in the afternoon with a multitude of fairy flowers. It is a little known fact that roots of these may be lifted in the fall and stored like Dahlias and the tubers planted in spring. It will result in larger plants, stronger, and with more flowers.

3305 **Red.** 3307 **Lilac.**
3306 **Rose.** 3308 **Yellow.**
Each of the above, oz., 30c; pkt., 10c.
3290 **Mixed, all sorts and colors.** ¼ lb., 50c; 1 oz., 15c; pkt., 10c.
3297 **Dwarf Mixed.** 1 ft. Pkt., 10c.
3310 **Sweet-Scented (Longiflora Alba).** 28 in. White. Pkt., 10c.

## MUSA

3315 **Ensete (Banana Plant)** + 6 ft. A splendid plant for the open air in summer, producing a most striking effect when planted singly or in groups. The seeds must be started in hot-bed or on bottom heat in greenhouse. 10 seeds, 20c.

## NEMOPHILA (Baby Eyes) □ 6 in.

Hardiest of annuals, and of the easiest culture. Makes a very effective front row to a bed or border, and should be sown out-of-doors in spring, in patches, where they are to flower.

3376 **Insignis Blue.** A popular plant for pots or borders. Pkt., 10c.
3380 **Mixed, all colors.** Cup-shaped flowers in many bright colors, the blue shades being particularly attractive. Pkt., 10c.

Marigold Legion of Honor

Mignonette Giant Machet

## MIGNONETTE (Reseda) □

No garden is complete without this fragrant plant of unassuming mien. One of the principal uses is for cutting purposes and combining in bouquets with other more pretentious blossoms without its delicate odor.

3225 **Bismarck.** 1 ft. The red flowers are larger in every way than those of other sorts, the spikes are very dense, its foliage is distinct, being crinkly, while its odor is strong and most delicious. Pkt., 10c.

3230 **Golden Queen.** 16 in. Yellow. Pkt., 10c.

3235 **Goliath.** 12 in. Foliage rich green, with bright red flowers. Flower stalks tall and strong, spikes often 7 inches long by 2 inches in diameter. Pkt., 10c.

3236 **Giant Rocket.** 2 ft. The largest and most robust variety. The flowers are wonderfully fragrant and produced in great abundance. Many plants carry 50 to 60 spikes of bloom, each 14 to 18 inches long. Pkt., 15c.

3245 **Machet.** 15 in. It is the best Mignonette for all purposes, either outside or inside. It is an ever-bloomer, the flowers lasting until late in the fall. ¼ oz., 25c; pkt., 10c.

3246 **New York Market.** This is an extra choice strain of Mignonette for greenhouse culture. The plants grow from 2 to 3 feet high and produce flower spikes up to 20 inches long, according to the quality of the soil, weather and treatment. Pkt., 25c.

3250 **Pyramidal Large-Flowering.** 20 in. Tall-growing variety. Pkt., 10c.

3250 **Mixed.** Many shades and types. Pkt., 10c.

See also Annual Novelties.

Myosotis (Forget-Me-Not)

# Vaughan's Nasturtiums

For ease of culture, duration of bloom, no annual excels the Nasturtium. Needing only moderately good soil in a well drained, sunny location, they vouchsafe us a profusion of their gorgeous blossoms. The tall varieties are freest bloomers and produce the largest flowers.

## Tall Sorts

3585 **Dunnett's Orange.** Bright orange.
3596 **General Jacqueminot.** Rich crimson.
3640 **Emperor of India.** Very dark foliage. Rich, deep scarlet flowers. The best red.
3740 **Ivy-Leaved.** Mixed colors. All with fine fimbriated petals. Color intense and very striking. Foliage also very beautiful, like Ivy, and vines exceedingly graceful.
3665 **Variegated-Leaved Varieties.** Many colors mixed. Very showy flowers. Leaves light green, beautifully marbled and blotched with white.
Each of above, pkt., 10c; oz., 20c.

**3570 Vaughan's Special Mixture of Dwarf Nasturtiums**

This mixture is put up by ourselves from named sorts, and contains a large share of the Liliput and the dwarf Chameleon, which have the richest and most varied combination of colors.
1 lb., $1.50; ¼ lb., 45c; 1 oz., 15c; pkt., 10c.

**COMBINATION OFFER P58**

1 pkt. each Nasturtium, Vaughan's Special Tall and Dwarf Mixture, 15c.

**3745 Vaughan's Special Mixture of Tall Nasturtiums**

In this will be found all the choicest colors of all the Tall Nasturtiums, the rich, velvety Lobb's varieties, Canary Bird Creeper and the new variegated-leaved varieties. 1 lb., $1.50; ¼ lb., 40c; 1 oz., 15c; pkt., 10c.

**COMBINATION OFFER O58**

1 oz. each Nasturtium, Vaughan's Special Tall and Dwarf Mixture, 25c.

Nasturtium Golden Gleam

**3735 Nasturtium Golden Gleam**

This plant forms a vigorous, large bush, which throws out short runners, averaging eighteen inches. The flowers commence to come as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color. The large, golden-yellow semi-double flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. Consequently the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant.

When well grown these flowers have the appearance of a fully double flower, and are most attractive. An ordinary sized bouquet, when allowed to remain in a room for a short period of time will fill the room with musk-like fragrance. Heretofore Double Nasturtiums have been only propagated by cuttings.

Pkt. (12 seeds), 25c.

# Dwarf Sorts 1 ft.

3480 **Empress of India.** Very dark leaves, crimson flowers.
3540 **Golden Cloth.** The foliage is of bright yellow, while the flowers are intense scarlet.
3485 **Golden King.** Pure golden yellow.
3490 **King of Tom Thumbs.** Intense deep scarlet, dark foliage.
3495 **King Theodore.** Deep red flower, dark foliage.
3500 **Laciniatium Mixed.** The flowers are deeply laciniated and appear in many attractive colors.
3520 **Ruby King.** Ruby-red, dark-leaved.
3550 **Spencer, Mixed.** The curly foliage is very unique and the flowers appear in many bright colors.
3555 **Variegated-Leaved Mixed.**
3530 **Vesuvius.** Salmon dark-leaved.

Price, any of above dwarf sorts, pkt., 10c; oz., 20c.

## MYOSOTIS (Forget-Me-Not) □ 12 in.

They are considered among the best spring flowers and grouped with Pansies and Daisies the most lovely combinations may be obtained. The tall varieties are of trailing habit and adapted to covering large patches, which they transform into a sea of blue. Respond to good treatment and flourish in shady, moist situations. The national flower of Belgium.

3320 **Alpestris Blue.** Trailing habit. Pkt., 10c.
3325 **Alba.** White. Pkt., 10c.
3330 **Rosea.** Pink. Pkt., 10c.
3345 **Mixed.** ⅛ oz., 25c; pkt., 10c.
3331 **Messidor.** Large indigo blue flowers on long stems which makes it a good cut-flower variety. Pkt., 25c.
3335 **Eliza Fonrobert.** Flowers large, sky-blue, with clearly defined white eye. Pkt., 10c.
3340 **Victoria.** 8 in. Azure blue. The flowers are large, bright azure blue, with yellow centers. The plants form neat bushes completely covered with blooms. Best for edging.
3341 **Victoria Indigo Blue.** 8 in.
3342 **Victoria Rose.** 8 in.
3343 **Victoria White.** 8 in.
Each of the above 4 varieties ⅛ oz., 50c. Pkt., 10c.

For other Myosotis, see Perennial and Novelty pages.

## PANSY □

3891 **Swiss Blue (Ullswater) (Thuner Sea).** The coloring is unusual and attractive. A solid blue flower with a blue black center. This color is one selected from our Swiss Giant. (Pkt. 200 seeds), 35c.

Pansy Swiss Blue

# Vaughan's Giant Pansies

Vaughan's Improved Swiss Giants

PANSIES, with their little flower faces are an inspiration to the poet and to the gardener. Shakespeare says—"Pansies for thoughts," and every time we look at a pansy flower we think of the wonderful gift to man of this particular little "step-mother" flower, as the Germans lovingly call this blossom.

To have a bed of pansies one must start the seed in the house in early spring and transplant when danger of frost is over, or else plant in fall in cold frame and winter over. Seeds may also be sown in spring out-of-doors for late summer and fall flowering. They like a cold, moist situation.

3890 **Vaughan's Improved Swiss Giant Pansies.** Several years ago we discovered and introduced this variety which created a sensation at once. The flowers are gigantic size, perfectly round, fine substance of flower and good form of plant and exhibit shades previously unknown in this family. They bloom early in the spring, continuing in flower all summer until late in fall. Pkt., 50c; 1/16 oz., 90c; 1/8 oz., $1.65; 1/4 oz., $3.00; 1 oz. $10.00.

3892 **Swiss Alpenglow.** The color is of a rich velvety garnet with three dark blotches. A most striking and attractive color. Pkt., 200 seeds, 35c.

3891 **Swiss Blue.** See preceeding page for illustration and description.

3893 **Swiss Yellow.** Of the true Swiss type. Rich yellow with blotches on the three lower petals. Pkts., 200 seeds, 35c.

3750 **Adonis.** Light blue with white margin. 1/8 oz.; 35c; pkt., 10c.

3756 **Azure Blue.** Sky-blue. 1/8 oz., 35c; pkt., 10c.

3759 **Beaconsfield.** Upper petals almost white, lower ones a deep rich purple. 1/8 oz., 35c; pkt., 10c.

3760 **Boulogne Giant Mixture.** The flowers are of the largest size, great substance, fine form and are borne on particularly strong stems. They are mostly 3- and 5-blotched, delicately veined, rich color. 1/16 oz., $2.00; 125 seeds, 50c.

3765 **Bugnot.** Very beautiful class. Large flowers with broad blotches, many having the two upper petals finely lined; handsomest and rarest colors, mostly dark shades. 1/8 oz., 50c; pkt., 20c.

3766 **Cardinal.** Brilliant red. Pkt., 10c.

3771 **Coal Black.** A jet black. 1/8 oz., 35c; pkt., 10c.

3779 **Emperor William.** Dark navy blue. Pkt., 10c.

3780 **Eros.** Purple, yellow border. Pkt., 10c.

3781 **Freya.** Violet-purple, silver edged. Pkt., 10c.

3785 **Mad. Perret.** Lovely shades of pink. Pkt., 10c.

3793 **Masterpiece (Frilled Pansy).** A remarkable type, each petal being conspicuously curled or waved. The range of color is very extensive, the rich, dark, velvety shades predominating. 1/8 oz., 50c; pkt., 25c.

3808 **Orchid Flowered Mixed.** Rare light shades, large frilled flowers, very attractive. Pkt., 10c.

3814 **Pink.** Fine shades of pink. Pkt., 10c.

3819 **Purple.** Rich deep purple. 1/8 oz., 35c; pkt., 10c.

3822 **Prince Henry.** Darkest blue. Pkt., 10c.

3830 **Ruby Red.** 1/8 oz., 35c; pkt., 10c.

3832 **St. Knud.** Orange. Pkt., 25c.

3849 **Volcano.** Deep red with five large blotches very fine. 1/8 oz., 50c; pkt., 20c.

3851 **Pure White.** 1/8 oz., 35c.; pkt, 10c.

3857 **Pure Yellow.** 1/8 oz., 35c; pkt., 10c.

3876 **Vaughan's Perfection Mixed.** Flowers extra large, well shaped of most beautiful coloring, of even quality, very prolific of flower and the delight of many of our north shore gardeners. 100 seeds 50c; 1/8 oz., $4.00.

3840 **Trimardeau Mixture.** It has a complete color range, but the new and fanciful varieties are not in it which can only be had in our Vaughan's Giant and International Mixtures. 1/8 oz., 35c; pkt., 10c.

3861 **Early Flowering Giant Mixed.** This strain will bloom about three weeks earlier than any other strain. It has not a complete color range, only twelve distinct plain shades being represented, but it has made a place for itself because of its early blooming. 1/8 oz., 35c; pkt., 10c.

3870 **Chicago Parks Bedding Mixed.** Great diversity of colors, free-flowering, blossoms slightly smaller than the Giant sorts. 1/4 oz., 50c; 1/8 oz., 25c; pkt., 10c.

3880 **Vaughan's International Mixture.** This is a mixture of special strains such as Bugnot, Masterpiece, Swiss Giants, Triumph of the Giants, Mammoth Exhibition, Non Plus Ultra, Giant Cassier—all 3- and 5-spotted flowers of largest size and great substance in the most varied colors and color combinations. Since this mixture contains but very few self-colors, such as white, blue and yellow, these should be ordered separately if desired. 3 pkts. (600 seeds), for 65c; 5 pkts. (1000 seeds), for $1.00; 1/8 oz., $1.50; pkt. (200 seeds), for 25c.

3875 **Vaughan's Giant Mixture.** Besides a good share of the "Fancy" strains such as Masterpiece, Bugnot, Cassier, etc., this mixture contains all the self-colors, such as white, yellow, blue, purple, red, bronze, etc., and is probably the best "general" high-grade mixture obtainable. All the flowers are of the "Giant" type and of good shape and texture. 1/8 oz., $1.00; 1 pkt. (250 seeds), 25c; 1 pkt. (125 seeds), 15c.

Nemesia Aurora

## NEMESIA □

This is one of the dwarf annuals which make pleasing masses of low growth for foreground beds, for edging, and for filling along the front of the taller things. The orchid-like flowers, which are often three quarters of an inch across, are varied in color, ranging from rose, yellow orange and blue.

3360 **Large Flowered Mixed.** 1 ft. Is the finest strain of the most popular flower, both for size and massive build of the individual flowers, also for the richness and variety of colors. Pkt., 25c.
3368 **Large Flowered, Scarlet.** Pkt., 20c.
3372 **Large Flowered, Orange.** Pkt., 20c.
3373 **Large Flowered, Rose.** Pkt., 20c.
3361 **Large-Flowering Dwarf. Aurora.** 8 inches. Striking flowers, the upper petals being dazzling turkey-red and the lower ones milk-white. Pkt., 25c.
3365 **Blue Gem. Dwarf.** 7 inches. One of the best blue annuals for bedding. Pkt., 15c.
3362 **Fire King. Dwarf.** Bright red. Pkt., 25c.
3363 **Orange King. Dwarf.** Brilliant orange. Pkt., 25c.

## NIEREMBERGIA

3410 **Gracilis** □ 6 in. Flowers white, shading to and veined lavender, an exceedingly graceful plant for hanging baskets, rockwork, etc. Pkt., 10c.

## NIGELLA □ 1½ ft.

3415 **Mixed (Love-in-the-Mist)** A compact, free-flowering plant with finely cut foliage, curious-looking seed pods; of easy culture, growing in any garden soil. Blue and white mixed. Pkt., 10c.
3420 **Miss Jekyll.** A lovely variety, bearing on long stems large semi-double flowers of a lovely tender cornflower-blue, nestling in fine feathery foliage. ⅛ oz., 25; pkt., 10c.

Try a packet of Leptosyne Stillmanii. It is a quick growing yellow flowering annual and you will like it.

Nigella Miss Jekyll

## NYCTERINIA

3430 **Capensis** □ 9 in. Charming little plants for pots, edgings and rockwork, flowers opening at night. White with maroon, delightfully fragrant. Pkt., 10c.

ORNAMENTAL GRASSES—See page 54.

## OENOTHERA (Evening Primrose) □

½ to 2 ft.

Showy and beautiful plants for borders, beds, etc. Flowering from June to Sept. Plant in fairly dry soil containing plenty of lime.

3442 **Afterglow.** A very attractive new variety; yellow flowers with bright red calyx. Pkt., 20c.
3439 **Lamarckiana.** Large flowered yellow. A biennial which blooms first year from seed. Pkt., 10c.
3435 **Evening Primrose, Mixed.** Neat plants, with large, saucer-shaped flowers, white or golden yellow; open at dusk; emit a delightful perfume. Pkt., 10c.

For other varieties—See Perennial pages.

## OXALIS □

3444 **Cloth of Gold.** 1 ft. A charming species with deep golden-yellow flowers produced with such freedom in the latter part of the season as to completely hide the bright green foliage. Pkt., 25c.
3445 **Rosea.** An excellent little plant for edging or rock gardens. Blooms all summer in the greatest profusion; flowers dark rose and delicate pink. Pkt., 25c.
3450 **Tropaeoloides,** 3 in. Yellow flowers, rich brown foliage. For rock gardens. Pkt., 10c.

Nicotiana Affinis

## NICOTIANA (Sweet-Scented Tobacco Plant) □ 2 ft.

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

3390 **Affinis Tuberose - flowered Tobacco.** Most showy and profuse bloomer, giving a continuous display of waxy white flowers right through the summer and autumn. They commence to bloom a few weeks from sowing. The plants are of branching, bushy habit, carry their flowers in clusters. ⅛ oz., 25c; pkt., 10c.
3392 **Affinis Hybrida.** Splendid hybrids in blue, red and rose, etc., shades. Pkt., 10c.
3395 **Sanderae.** A lovely hybrid tobacco of elegant branching habit, and bearing on light, graceful stems great quantities of very beautiful rosy carmine flowers. Pkt., 10c.
3396 **Sanderae Crimson King.** Dark velvety crimson-red flowers. Pkt., 10c.
3397 **Sanderae Hybrids.** All shades. Pkt., 10c.
3405 **Sylvestris,** 4 ft. A noble-looking plant of pyramidal habit, with long, tubular, pure white flowers, borne in dense panicles. Pkt., 10c.

## NICANDRA □

3389 **Physaloides.** Apple of Peru or Shoofly Plant. A strong spreading annual, 3-4 ft. high, grown for the showy blue flowers and odd fruits. It is an old-fashioned garden annual now rarely seen. Pkt., 10c.

## NOLANA

3385 **Mixed** □ 6 in. (Chilian Bell Flower). Dwarf plant for sunny rockeries or borders, needs good light soil. Flowers bell shaped in various colors. Belongs to Convolvulus family. Pkt., 10c.

Pentstemon Sensation

## PENTSTEMON (Beard Tongue) □ 2 ft.

3926 **Sensation.** Although this is a perennial it can easily be grown as an annual. If sown in heat in February or March, they will flower freely the first year, producing large spikes of handsome gloxinia-like flowers. Often 2 in. across and in the most brilliant and varied colors, many of which are beautifully edged with a fine contrasting color. Pkt., 25c.
3927 **Sensation Red Shades.** Produces large handsome stalks of gloxinia-like flowers often 2 in. across and in dazzling red shades. Pkt., 25c.
3928 **Sensation Pink Shades.** Charming selection of various shades of pink. Pkt., 25c.
3929 **Sensation Violet Shades.** Pkt., 25c.

See Perennial pages for other varieties.

## PASSIFLORA

3910 **Coerulea Grandiflora (Passion Flower)** ÷ = 15 ft. **Southern Beauty.** A beautiful vine for greenhouse and window. Few effects are more charming than the Blue Passion Flower covering a greenhouse wall with its rich green foliage and sky-blue flowers, followed later by an abundance of handsome fruit. Pkt., 10c.
3911 **Gracilis.** Blue and white. Pkt., 10c.

## PRIMULA ÷

### Chinese Primrose

This is one of the most charming winter flowering house plants. The flowers are remarkable, not only for size, beauty and brilliancy of the colors, but for the great substance of the petals.

4465 **Vaughan's International Mixture.** Our mixture contains all the choicest colors of the single-flowering Primulas in all their dainty shades. 100 seeds, pkt., 35c.
4460 **Good Mixture of Single Varieties.** Pkt., 15c.

### Primula—Various Sorts

4475 **Malacoides.** 10 in. The flowers are of a delicate shade of lavender, produced in whorls on tall graceful spikes in great profusion. Pkt., 25c.
4478 **Malacoides Rosea.** Pkt., 25c.
4480 **Forbesi Baby Primrose.** 10 in. The flowers are very graceful, of the most pleasing rose color with yellow eyes and are borne on erect stems. Pkt., 15c.
4481 **Kewensis.** 1 ft. Canary-yellow. Fine leaf winter bloomer. Pkt., 25c.

Auricula and Veris—See Perennials.

### Primula Obconica Grandiflora

This is one of the most beautiful Primulas for pot culture and also succeeds well in the open border during the summer.

4490 **Rosea, Pink.** Pkt., 200 seeds, 25c.
4495 **Obconica Grandiflora Mixed.** Good mixture. Pkt., 200 seeds, 15c.

### Primula Obconica Gigantea

The leaves are dark green, thick and leathery, roundish, veined at the edges and often measure six inches in diameter. The flower stalks are stiff and strong. The flowers are of good shape, measure from 1¼ to 1½ inches in diameter, and are borne in clusters up to 4 inches across. Should not be planted in leaf mould or peaty soil.

4500 **Gigantea Rosea.** A beautiful clear rose. Pkt., 200 seeds, 25c.
4505 **Gigantea Mixed.** Pkt., 200 seeds, 25c.

Pink Glory Romany Lass Triumph Pink

# Vaughan's Petunias

## Double Large Flowering Varieties

3935 **Vaughan's Mixture of Double Petunias.** This is a mixture of the best large flowering and fringed double petunias. Of course, only a certain percentage of double flowers may be expected from seed, but our mixture will produce from 20 to 30 per cent of doubles, while the remainder will be choice, large single flowers. The weaker seedlings should be carefully saved, as those invariably produce the finest double flowers.

Pkt., 200 seeds, 50c.

3940 **Lady of the Lake.** Double white fringed.
3943 **Double Heliotrope.** 3949 **Double Rose.**
3946 **Double Red.** 3952 **Double Mixed.**
Each of the above, pkt., 125 seeds, 25c.

3955 **Double Small Flowered Mixed.** The flowers of this strain are smaller than those of the above types, but they are produced in greater profusion. Pkt., 300 seeds, 25c.

## Large Single Flowering Varieties

The flowers of this type average 3 to 4 inches across.

4045 **Brilliant Rose Fringed.** Pkt., 150 seeds, 25c.
4061 **Fimbriata Coerulea.** Fringed delicate blue, veined with dark blue. Pkt., 50c.
4051 **Pink Glory.** The color is pure flame-rose pink. The flowers are slightly ruffled. Pkt., 35c.
4072 **Romany Lass.** The color is a clear bright velvety blood-red with purple throat, striped in black. Pkt., 50c.
4055 **Royal Purple.** Rich velvety color. Pkt. 150 seeds, 20c.
4054 **Triumph Pink.** Large flowers, beautifully ruffled, of a clear, bright pink. Pkt., 35c.
4046 **Venosa.** Blue veins on light blue. Pkt., 50c.
4060 **Large Flowering Fringed Mixed.** A superb strain of elegant, finely fringed flowers, in remarkable variety of color. Pkt., 350 seeds, 25c.

Vaughan's Best Large Flowering Single Mixed, No. 4100

Petunias are delightful in a sunny spot. Developing into bushy plants completely covered with charming flowers in a most complete color range and nearly all with a delicate fragrance. Plant in rows and masses in the garden for brilliant effect and dot your gravel paths and stepping stones with a plant at intervals. The effect will be pleasing. Try a few plants of Calliopsis, Crown of Gold, in a bed of pink Petunias. You will be surprised.

## Balcony Varieties

Single large flowering sorts.

4030 **Balcony Queen.** Rich, velvety violet with white blotches.
4035 **Balcony White.**
4040 **Balcony Blue.** Rich, velvety blue.
4041 **Balcony Rose.**
4036 **Balcony Star.** Red with white star.
4042 **Balcony Mixed.** The five varieties noted above.
Each of the above, pkt. 150 seeds, 25c.

## Portland Petunias

4056 **Pride of Portland.** Deep rose fringed.
4057 **Scarlet Beauty.** Scarlet fringed.
4058 **Elk's Pride.** Plain, edged black-purple.
4059 **White Beauty.** Fringed, pure white.
Each of the above, pkt., 25c.

## Single Giant Flowering Varieties

The flowers of this strain average 5 to 7 inches across.

4065 **Giants of California Mixed.** The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. Pkt., 350 seeds, 25c.
4070 **Giant Empress.** Lilac blue with purple veins. Pkt., 150 seeds, 25c.
4071 **Copper-Rose.** Enormous flowers of wonderful color with a dark throat, deeply veined. Pkt., 150 seeds, 25c.
4075 **Giant White.** With yellow throat. Pkt., 150 seeds, 25c.
4080 **Giant Silvery Rose.** New. Pkt., 150 seeds, 25c.
4081 **King Alphonso.** Very dark crimson, black throated, boldly waved and fringed petals. Pkt., 150 seeds, 25c.
4085 **Giant Rose.** Ruffled veined, black. Pkt., 150 seeds, 25c.
4090 **Giant Black Prince.** Darkest. Pkt., 150 seeds, 25c.
4095 **Triumph of the Giants.** The finest strain of single large-flowering Petunias; some of its colors cannot be found in any other mixture and nearly all the flowers are veined in contrasting colors. Pkt., 250 seeds, 35c.
4100 **Vaughan's Best Mixture Large Flowering Single Petunias.** This mixture is made by ourselves and includes, besides the Giant Ruffled, all the colors of the large flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately veined throats in various colors, and their truly mammoth flowers. Pkt., 300 seeds., 25c.

## Single Small Flowering Varieties

3958 **Alba.** Pure white.
963 **Adonis.** Carmine rose.
3965 **Countess of Ellesmere.** Rose with white throat.
3970 **General Dodds.** Blood-red.
3975 **Howard's Star Improved.** Crimson-maroon with a clearly defined star of blushing white.
3980 **Inimitable.** Blotched and striped.
3981 **Lord Courtenay.** Brilliant rose, yellow throat.
3988 **Venosa.** Light red veined.
Each of the above, pkt., 10c.
3995 **Finest Mixed.** ⅛ oz., 25c; pkt., 10c.

## Single Dwarf Small Flowering Varieties

3998 **Blue Bird, Nana Erecta Violacea.** Color steel blue. ⅛ oz., $1.00; pkt., 25c.
4000 **Carmen Sylva.** Baby blue with white throat. Pkt., 10c.
4001 **Heavenly Blue.** A silvery light blue. Varies in shade. Pkt., 35c.
4005 **Improved Rosy Morn.** Clear pink with a broad white throat. ⅛ oz., 60c; pkt., 15c.
4010 **Norma.** Blue with white star. Pkt., 10c.
4015 **Dwarf Inimitable.** Regular white stars on deep old rose ground. Pkt., 10c.
4018 **Rose of Heaven.** Rich brilliant rose, with inconspicuous white throat, darker than Rosy Morn. Pkt., 25c.
4020 **Snowball.** Pure satiny white. Pkt., 15c.
4025 **Vaughan's Special Mixture of Dwarf Small Flowering Varieties** includes all the varieties listed and many others and will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as the summer lasts. ⅛ oz., 40c; pkt., 10c.

Blue Bird and Heavenly Blue

# Phlox Drummondi

The Phloxes are the showiest and most easily raised of all Annuals. We know of nothing which produces such a continuous supply of the most attractive flowers in a most wonderful range of colors. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades. Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory. If the seed pods are removed the plants will continue in flower until cut down by late frosts. See first page of Novelties for Cover Collection.

### Grandiflora Varieties ☐ 1 ft.

This section has beautiful, round-petaled flowers, which overlap each other.

4105 **Alba.** Pure white.
4107 **Alba Oculata.** White with dark eye.
4110 **Atro-purpurea.** Black-brown.
4113 **Brilliant.** Rose with dark eye.
4115 **Carnea.** Flesh color.
4120 **Chamois Rose.**
4125 **Coccinea.** Fiery scarlet.
4130 **Coerulea Striata.** Blue-striped.
4137 **Dark Blue.** True blue.
4140 **Isabellina.** Yellow.
4145 **Kermesina Splendens.** Crimson with white eye.
4146 **Leopoldi.** Rose with white eye.
4150 **Gold Star.** Pink with gold star.
4155 **Rosea.** Pink.
4156 **Stellata Splendens.** Scarlet with white eye.
4160 **Violet.** With white eye.
Any the above, ⅛ oz., 30c; pkt., 10c.
4165 **Splendid Mixture (mixed only.)** 1 oz., $1.25; ¼ oz., 35c; pkt., 10c.
4175 **Cuspidata or Star Mixed.** These have quaint and unusual flower formation. ¼ oz., 40c; pkt., 10c.
4180 **Semi-Double Varieties Mixed.** Plant in sandy soil and the flowers will be inclined to be more double. Pkt., 15c.

### Nana Compacta Dwarf 8 in.

These are much superior to the other Phloxes for ribbon bedding or borders. The plants grow very symmetrical in neat, little bushes, covered with flowers during the whole summer and fall.

4182 **Apricot.** Yellow.
4183 **Fireball.** Blood-red.
4187 **Delicata or Old Rose.**
4189 **Snowball.** Pure white.
4192 **Isabellina.** Yellow.
4195 **Sky-blue with White Eye.**
4200 **Salmon Pink.**
4201 **Mirabilis.** Salmon-pink with white eye.
4203 **Violet.**
Each of the above, pkt., 15c.
4205 **Nana Compacta.** Mixed, all colors. ⅛ oz. (mixed only), 40c; pkt., 10c.
4210 **Cecily.** Mixed, all colors. Flowers are of immense size, the coloring very bright and nearly all the blossoms display a white eye. ⅛ oz., 50c; pkt., 15c.

**HARDY PHLOX**—See Perennial pages.

Phlox Vaughan's Special Mixture

4220 **Vaughan's Special Mixture Phlox.** Contains all the varieties listed here and several other strains only to be had in this mixture, and will delight and astonish all with its extensive variety of colors. Over 30 different shades will be produced from a single package. 1 oz., $1.60; ¼ oz., 50c; ⅛ oz., 30c; pkt., 15c.

# Poppies ☐

### Single Annual Poppies

4235 **Admiral.** 36 in. Glistening white, with a broad margin of brilliant scarlet. Pkt., 10c.

**California Poppy**—See Escholtzia.

4241 **Danebrog or Danish Flag.** 36 in. Brilliant scarlet flowers, with a silvery spot on each petal, forming a white cross. Pkt., 10c.
4245 **Flanders Poppy.** 30 in. Vivid scarlet-red. This flower has in the minds of men been associated for over two hundred years with the battlefields of Flanders. Sow with Centaurea Cyanus Double Blue. ½ oz., 25c; 1 oz., 40c; ¼ lb., $1.25; pkt., 10c.
4255 **King Edward.** 36 in. Flowers deep scarlet, shaded crimson, with a large black blotch at the base of each petal. Pkt., 10c.
4270 **Tulip (Glaucum).** 20 in. Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt., 10c.

**Poppies are one of the annuals we recommend for fall as well as for spring sowing.**

Poppy Special Double and Single Mixed

Poppy Shirley

### Shirley Poppies (Silk or Ghost)

These have beautiful satiny flowers of various colors, all with white centers, which make the plants very attractive. Foliage is hairy and finely cut.

4277 **American Legion.** A dazzling orange-scarlet of enormous size, borne on long, stout stems. ¼ oz., 25c; pkt., 15c.
4278 **Blue Shirley.** 20 in. Various shades of blue. Pkt., 10c.
4280 **Wild Rose Shirley.** 20 in. Shades of rose and pink. ¼ oz., 25c; pkt., 10c.
4285 **Shirley Mixed.** 20 in. Beautiful colors in delicate shades of rose, apricot, salmon-pink, and blush to glowing crimson with a sprinkling of blues. Oz., 30c; pkt., 10c.
4291 **Eldorado (Ryburgh Hybrids).** 2 ft. The flowers are large, single, semi-double and double, and contain magnificent shades of soft salmon, orange, orange-scarlet, pink, rose and white, without any dark markings whatever. Pkt., 10c.
4295 **Eldorado Salmon Shades.** 2 ft. Pkt., 15c.

**Santa Barbara Poppy**—See Hunnemannia.

**Iceland and Oriental Poppies**—See Perennial pages.

### Double Annual Poppies

4315 **American Flag.** Flowers very large, snow-white, scarlet bordered. Pkt., 10c.
4320 **Fairy Blush.** 36 in. The flowers have the effect of large feathery balls, overcast with a rosy shade. Pkt., 10c.

#### Giant Double

4325 **Pure White.**
4330 **Pale Yellow.**
4335 **Pink.**
4338 **Cardinal Red.**
4345 **Salmon.**
4350 **Heliotrope.**
Each of the above, pkt., 10c.
4355 **Mikado.** 28 in. Flowers white at base, shading off to pink and rose, with elegantly curled petals, like Japanese Chrysanthemum. Pkt., 10c.
4360 **Scarlet King.** Pkt., 10c.
4365 **White Swan.** Fringed double white. Pkt., 10c.
4368 **Double Shirley.** Beautiful double satiny flowers in shades of white, pink and old rose with white center. Pkt., 10c.
4375 **Carnation-Flowered Mixture of Double Poppies.** Large sized flowers with fringed petals of all shades, many striped. Oz., 30c; ½ oz., 20c; pkt., 10c.
4380 **Peony-Flowered Mixture.** Double ball-shaped flowers with plain edges of gigantic size. Oz., 30c; ½ oz., 20c; pkt., 10c.

Sow perennial seeds early either in May or June and the seedlings will be better size to winter over more successfully.

4390 **Vaughan's Special Mixture, Double Poppies.** This includes all the above sorts, and will produce charming flowers in an endless variety of colors. ¼ lb., $1.25; 1 oz., 40c; ½ oz., 25c; pkt., 10c.

4310 **Vaughan's Special Mixture Double and Single Poppies.** Comprises not only all the double and single Poppies described, but also a number of other sorts especially purchased for this mixture, including some entirely new ones. ¼ lb., $1.25; 1 oz., 40c; ½ oz., 25c; pkt., 10c.

4305 **Vaughan's Special Mixture, Single Poppies.** This mixture includes all the choice single listed Poppies and many other kinds not listed. It is really extra choice. ¼ lb., $1.25; 2 oz., 75c; 1 oz., 40c; ½ oz., 25c; pkt., 10c.

Phacelia Campanularia

## PHACELIA □

4101 **Campanularia,** 8 in. A very beautiful annual, producing a terminal raceme of intense gentian-blue flowers with conspicuous white anthers; very effective for edgings, etc., and a charming pot-plant. One of the earliest annuals to bloom and lasts in perfection a long time. ⅛ oz., 25c; pkt., 15c.

4102 **Tanacetifolia,** 18 in. Large compact head of pale mauve flowers. Valuable bee plant. Pkt., 10c.

## PENNISETUM (Fountain Grass) □ 2½ ft.

Tender ornamental grasses, valuable either as individual specimens in the garden or for massing, while as for border plants for beds of Cannas or Caladiums nothing equals them.

3920 **Longistylum** Extremely graceful greenish white plumes. Pkt., 10c.

3925 **Rueppelianum.** (Purple fountain grass) graceful green foliage and purplish plumes. Pkt., 10c.

## PERILLA

3930 **Nankinensis** □ 1½ ft. Valuable foliage plant, resembling Coleus, dark mulberry-colored leaves. This does especially well in cities as it is not affected by smoke or gas. Seed germinates slowly. Used largely in the gardens of St. Mary's of the Lake Seminary, Mundelein, Ill. Pkt., 10c.

## POLYGONUM

4232 **Orientale.** □ 7 ft. Kiss-me-over-the-Garden-Gate. Old fashioned tall growing plant with panicles of small bright pink flowers at the summit of the branches. Pkt. 10c.

## PYRETHRUM (Foliage Plant)

4515 **Aureum Golden Feather** □ 6 in. One of the best plants for edging, grown for its beautiful yellow foliage. Most successfully treated as an annual. Pkt., 10c.

**PYRETHRUM ROSEUM**—See Colored Perennial Pages.

Portulaca Double Best Mixed

## POINCIANA

4230 **Gilliesi (Bird of Paradise)** ÷ 10 ft. The blossoms are of a rich golden yellow, about 2¼ inches in diameter, produced in large trusses, the most striking feature being the long, incurving stamens and pistils of a beautiful bright crimson color. Seed should be soaked in warm water and started indoors or under glass in a light sandy soil. Plants should be carefully hardened by gradual exposure to fresh air before going into the open ground. If the seed is started early it will produce blooms in great profusion the first year. Pkt., 10c.

## RHODANTHE (Everlasting) □ 1 ft.

A charming annual; succeeds in a light, rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting.

4530 **Manglesi Rose.** Bright rose flowers, very graceful, makes a pretty pot plant.

4533 **Maculata Alba.** White.

4535 **Maculata Rosea.** Rose.

4540 **Mixed.**

Each of above, pkt., 10c.

## ROSE

4575 **Polyantha Nana.** 1 ft. Miniature Fairy Roses, forming little bushes covered with dainty little single and semi-double flowers, six months after sowing. Pkt., 10c.

Portulaca Single Mixed

# Portulaca

## (Rose Moss) □ 6 in.

This plant will grow and bloom profusely in a dry, hot situation, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed through, and very soon one of the loveliest of floral carpets will appear. Sow between stepping stones.

### Large Flowering Single

4400 **White.** 4415 **Striped.**

4405 **Yellow.** 4420 **Scarlet.**

4410 **Pink.**

Each of the above, oz., $1.00; ¼ oz., 35c; pkt., 10c

4425 **Giant Parana.** The flowers are fully twice as large as those of other Portulacas and of the most dazzling reddish-purple. Pkt., 10c.

4430 **Single Mixed.** Lb., $6.00; ¼ lb., $1.70; 1 oz., 60c; ¼ oz., 20c; pkt., 10c.

### Large Flowering Double

4435 **White.** 4441 **Salmon.**

4438 **Yellow.** 4443 **Scarlet.**

4440 **Pink.**

Each of the above, ⅛ oz., 75c; pkt., 10c.

4455 **Double Best Mixture.** 1 oz., $2.50; ⅛ oz., 50c; pkt., 10c.

## SAINTPAULIA ÷ 4 in.

4589 **Ionantha. African Violet.** A free and long-flowering pot-plant. Plants are dwarf, leaves like a Gloxinia, flowers beautiful blue with golden anthers resembling those of a large single sweet-scented violet. Pkt. 30c.

Ricinus Zanzibariensis Mixed

## RICINUS (Castor Bean) □

Stately, strong growing plants, with very ornamental foliage, well adapted as center plants of groups of Cannas, Dahlias, etc. Moles are troublesome in many gardens, but they may be kept away by planting Castor Beans in the borders.

4545 **Cambodgensis.** 6 to 8 ft. Large palm-like leaves of darkest maroon; stalk nearly black. 1 oz., 20c; pkt., 10c.

4546 **Crimson Spire.** The bushy plants grow 6 to 8 ft. high with large palmate leaves of a lustrous purple color gradually changing to bronzy green, with red stems, stalks and vines. The numerous large seed spikes are brilliant rosy crimson. Pkt., 15c.

4547 **Borboniensis Arboreus.** 15 ft. Immense plants with green foliage. Oz., 20c; pkt., 10c.

4550 **Panormitanus.** 8 to 10 ft. Huge leaves of a peculiar old bronze shade; stems blue powdered. 1 oz., 25c; pkt., 10c.

4555 **Sanguineus.** 6 ft. Green leaved, red stems. 1 oz., 20c; pkt., 10c.

4560 **Zanzibariensis Mixed.** 10 to 12 ft. The ornamental leaves, beautifully lobed, are 2½ to 4 ft. across. Each plant makes a perfect pyramid of foliage. 1 oz., 20c; pkt., 10c.

4565 **Zanzibariensis Enormis.** 1 oz., 25c; pkt., 10c.

4570 **Mixed.** Many sorts. 1 oz., 15c; pkt., 10c.

## SAPONARIA (Soapwort)

4691 **Vaccaria Rose** □ 2 ft. The light graceful sprays of glistening pink flowers, somewhat like a "glorified" Gypsophila, are produced in greatest profusion.

4693 **Vaccaria Alba.** White.

4692 **Vaccaria Mixed.**

4694 **Multiflora Scarlet Queen.** 6 in. Dwarf, bearing an immense number of rosy-scarlet flowers. Each of the above, pkt., 10c.

Saponaria Mixed

Salpiglossis Vaughan's Special Mixture

## SALPIGLOSSIS □ 2½ ft.

Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped much like a Petunia but rivaling the latter in the beautiful colors displayed. Nearly every flower is veined with a glint of gold, and it is the only flower to our knowledge possessing this odd characteristic. The Salpiglossis is deservedly known as the Orchid of Hardy Annuals.

4590 **Bright Crimson.** 4611 **Blue and Gold.**
4591 **Brown and Gold.** 4612 **Purple and Gold.**
4595 **Faust. Black.** 4613 **Scarlet and Gold**
4600 **Rose and Gold.** 4614 **Velvety Red.**
4605 **Velvety Violet.** 4616 **White and Gold.**
4610 **Golden Yellow.**
Each of the above, per pkt., 15c.

4615 **Gloxiniaflora Mixed.** A special selection of the Painted Tube Tongue made by a French hybridizer. Flowers large and fancifully veined in contrasting colors. Pkt., 15c.

4625 **Emperor Mixed.** Large improved strain, complete range of colors. Pkt., 10c.

4630 **Vaughan's Special Mixture.** This mixture is put up by ourselves of separate varieties and is without doubt the best mixture obtainable. ⅛ oz., 35c; pkt., 15c.

## RUDBECKIA

4580 **Bicolor Superba (Coneflower)** □ **2 ft.** Produces an abundance of bright yellow flowers with brown central disc; fine for cutting. Pkt., 10c.

## SANVITALIA

4690 **Procumbens Fl. Pl.** □ **6 in.** Sanvitalia flowers are much like tiny Zinnias, being golden yellow with very dark purple centers, some of them single and others double. The plants grow only six inches tall, or rather they are prostrate and spread over the soil instead of growing upward. They start blooming in June and continue until frost. Pkt., 10c.

## SCARLET RUNNER

4766 **Scarlet Emperor.** □ In northern locations where summers are cool and short this takes the place of the Large Lima Beans. Plants are of strong, quick growth, bearing large sprays of bright scarlet pea-like flowers. When fully ripened the dry beans are of bright scarlet, heavily blotched with purple. Pkt., 10c.

## SENECIO ELEGANS □ 12 in.

These lovely annuals are among the most desirable of all easily grown garden flowers. Free growers and continuously in bloom.

4774 **Double Mixed.** Pkt. 10c.

## SILENE

4775 **Armeria Mixed** □ **1½ ft. (Catchfly.)** A very showy early flowering hardy annual, bearing in quantity, heads of beautiful white, pink and red flowers. Pkt., 10c.

4776 **Pendula Comp. Fl. Pl. Deep Lilac.** Dwarf compact plants, covered with flowers, very useful as edging to beds of lilac and purple colorings and for rockeries. Pkt., 10c.

4777 **Pendula Comp. Fl. Pl. Peach-blossom.** Similar to above, with numerous double peach-pink flowers. Makes a brilliant show in early spring. Pkt., 10c.

**SENSITIVE PLANT**—See Mimosa Pudica.

## SMILAX + = 6 ft.

4780 Makes a fine pot or basket plant. Elegant for table decoration when cut. Pkt., 10c.

**SNAPDRAGON**—See Antirrhinum.

**SNOW ON THE MOUNTAIN**—See Euphorbia Variegata.

**SPIDER PLANT**—See Cleome Pungens.

## SCABIOSA (Mourning Bride) 2½ft. □

Commonly known as the Pincushion Plant. The flower stems are long and the blossoms keep well in water. The soft shades predominate. When given plenty of room and the seed vessels are kept regularly picked off, it will last through the whole summer. Owing to its sweetness the bees are very fond of it and its floral flavors also attract all the most beautiful types of butterflies to the neighborhood.

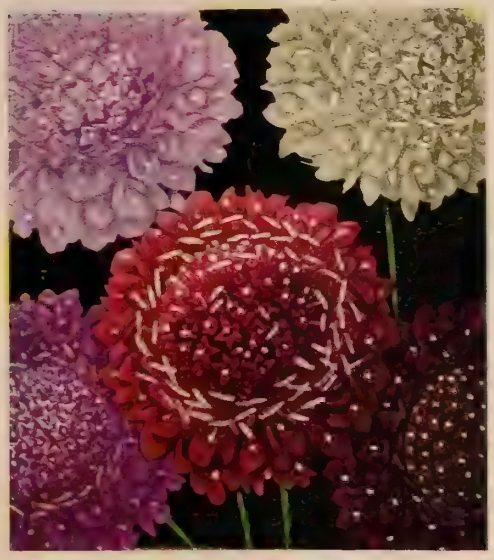
### Large Flowering Double

4695 **Snowball.** 4715 **Azure Fairy.**
4700 **Golden Yellow.** 4720 **Cherry Red.**
4705 **Flesh.** 4725 **Black Prince.**
4710 **Fiery Scarlet.** 4730 **Rose.**
4731 **Amethyst or Ageratum Blue.**
Each of above, ¼ oz., 30c; pkt., 10c.

4728 **Shasta.** Pure white of enormous size. Pkt., 20c.

4729 **Peachblossom.** A beautiful shade of peach-blossom pink. Pkt., 20c.

See also Perennial Pages.



Scabiosa Vaughan's Special Mixture

4740 **Scabiosa Vaughan's Special Mixture.** Many new colors have been purchased for this and we are sure the delicate and soft colors will be admired by all our friends who plant a packet of this seed. ¼ oz., 25c; pkt., 10c.

## SCHIZANTHUS □

This is one of the daintiest of annuals. The seed germinates readily and in a few weeks the plant is a mass of small but bright flowers in a bewildering range of colors, all blotched and marked in contrasting shades. The foliage is delicate and fern-like. It may be sown in spring for garden decoration or may be seeded in fall in pots in the conservatory or house for spring blooming.

4757 **Vaughan's Excelsior Hybrids.** A choice strain with very large flowers with handsome markings on white, buff, brilliant rose, blue and purple ground. Superior to anything yet offered. Pkt., 25c.

4756 **Rose and Amber Shades.** Quite a new strain of pink and rose tints, mostly heavily blotched gold and bronze but also contains some very delicate and pleasing pinks. Pkt., 25c.

4760 **Wisetonensis Mixed.** 1½ ft. Profusion of flowers varying from almost white with yellow eye to a brilliant rose with bronzy brown center. Pkt., 15c.

4765 **Mixed, all colors.** ¼ oz., 15c; pkt., 10c.

4758 **Retusus Roseus.** 2 ft. Large rose orchid-shaped flowers fairly cover the plant. Foliage fern-leaved. Upright growth, fine for cuttings. Pkt., 15c.

4759 **Retusus Rosamunde.** 2 ft. Of upright and stiffer growth than above which makes this type more suitable for cut-flower purposes. Delicate rose-spotted flowers. Pkt., 15c.

Salvia Splendens America

## SALVIA □

The Salvia Splendens is a standard bedding plant that keeps the garden bright with color until late in autumn. This plant lends itself to many uses; it makes a good pot plant, does well in window boxes and is useful for cutting. Its best use, however, is as a hedge or border plant, for brilliant color effect.

4640 **America, or Globe of Fire. 16 in.** This is the freest and most continuous bloomer; also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. Pkt., 25c.

4655 **Clara Bedman or Bonfire. 2 ft.** The spikes grow erect and stand clear above the foliage. The plants form handsome globular bushes. Pkt., 10c.

4660 **Drooping Spikes. 2½ ft.** This large flowering variety has three times the flowering capacity on each spike as the ordinary Salvia Splendens. Pkt., 10c.

4650 **Fireball. 1½ ft.** The bushy plant is covered with a great number of flower spikes of the most fiery scarlet. The plants branch freely, the side shoots often producing 4 to 6 flowering spikes. Pkt., 15c.

4665 **Maroon Prince. 2 ft.** Particularly rich and royal color. A purple-violet with a velvety sheen. Pkt., 15c.

4670 **Zurich.** Early. The plants are dwarf and compact with large brilliant flower spikes. Pkt., 15c.

4675 **Mixed.** The above sorts and others. Pkt., 10c.

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4680 **Coccinea. 2 ft.** Annual scarlet sage. Pkt., 10c.

4683 **Farinacea. 3 ft.** Tall spikes of the most lovely pale cloudy blue. Blooms form a dense mass of foliage. Flowers may be dried and used as an everlasting. Pkt., 10c.

4679 **Blue Beard.** Grows 1 ft. high. Its blue-purple heads produce a fine effect in beds and borders and are prized for cutting. Pkt., 10c.

See also Perennial Pages.

Schizanthus Vaughan's Excelsior Hybrids

Mrs. Calvin Coolidge | Blue Bonnet | Majestic Rose | Sweet Lavender | Valencia

# Vaughan's Sweet Peas

## Early and Long Season Spencer

A new race of Sweet Peas, having the large waved flowers of the Spencer type, but flowering fully one month earlier, they also continue to flower for a much longer period. Excellent for greenhouse planting and also for outdoor sowing.

5339 **Alameda.** Deep rose-pink, overlaid with glowing salmon cerise-pink on white ground. Oz., 75c; pkt. 25c.
5340 **All-White.** White seeded. Oz., 50c; pkt., 10c.
5345 **Amethyst.** Royal purple. Oz., 50c; pkt., 10c.
5346 **Apollo.** A soft salmon pink self. Oz., 75c; pkt. 25c.
5348 **Ball's Blue.** Clear blue. Oz., 60c; pkt., 10c
5349 **Ball's Rose.** A bright dark rose with amber flush. Oz., 50c; pkt., 10c.
5375 **Blue Bird.** Violet-blue. Oz., 50c; pkt., 10c.
5353 **Blue Bonnet.** Large, fine deep blue. Oz., 75c; pkt., 25c
5350 **Blue Boy.** Largest and clearest blue. Oz., 50c; pkt., 10c.
5351 **Bright Light.** Flaming scarlet. Oz., 50c; pkt., 10c.
5354 **Burpee's Lavender.** A lovely light Wisteria lavender. Oz., 75c; pkt., 25c.
5385 **Columbia.** The best pink and white. Oz., 50c; pkt., 10c.
5395 **Cream.** Oz., 50c; pkt., 10c.
5398 **Eldorado.** Orange. Oz., 75c; pkt., 15c.
5400 **Enchantress.** Rose pink. Oz., 50c; pkt., 10c.
5411 **Fandango (Duplex).** Bright rose, large, magnificently frilled, long stemmed. Oz., 75c; pkt., 25c
5409 **Fair Maid.** Blush pink; suffused salmon on white ground. Oz., 50c; pkt., 10c.
5412 **Forty-Niner.** Deep yet bright true orange shade, long stems. Oz., 75c; pkt., 25c.
5416 **Giant Rose.** Improved Zvolanek's rose. Oz., 50c; pkt., 15c.
5420 **Glitters.** Standard bright fiery orange, wings deep orange. Oz., 50c; pkt., 10c.
5430 **Grenadier.** A glowing poppy-scarlet. Oz., 60c; pkt., 15c.
5438 **Harmony.** Clear lavender. Oz., 50c; pkt., 10c.
5439 **Hercules.** Mammoth rosy pink. Oz., 50c; pkt., 10c.
5451 **Illumination.** Salmon cerise. Oz., 50c; pkt., 10c.
5452 **Imperial Pink.** Clear pink. Oz., 75c; pkt., 15c.
5466 **Jeanne Mamitsch.** Striking pink, shading off to deepest pink. Oz., 60c; pkt., 15c.
5471 **Lady Gay.** Delightful shade of soft shrimp pink. Pkt., 15c.
5486 **Majestic Rose.** Immense deep, brilliant rose-pink flowers on long stems. Pkt., 15c.
5489 **Morse's Superior Pink.** Beautiful clear rose-pink, very slightly shaded with salmon. Oz., 60c; pkt., 15c.
5488 **Mrs. Calvin Coolidge.** Salmony pink. Oz., 60c; pkt., 15c.
5490 **Mrs. Chas. A. Zvolanek.** Clear lavender. Oz., 50c; pkt., 10c.
5495 **Mrs. Herbert Hoover.** "The California Blue." Oz., 75c; pkt., 15c.
5491 **Mrs. Kerr.** The best salmon. Oz., 60c; pkt., 15c.
5492 **New Blue.** Deep blue. Oz., 60c; pkt., 15c.
5514 **Peaches.** Bright apricot rose with touch of lemon in the keel. Oz., $1.00; pkt., 25c.
5493 **Orange King.** Glowing intense orange. Oz., $1.00; pkt., 25c.
5520 **Rose Queen.** Rose pink. Oz., 50c; pkt., 10c.
5524 **Sparkle.** Bright, clear vivid scarlet, sunproof. Oz., $1.00; pkt., 25c.
5525 **Sunray.** Brilliant glowing yet soft cerise on cream ground with a suspicion of orange. Oz., 60c; pkt., 10c.
5540 **Snowstorm Improved.** Flowers large, pure white, of great substance. Oz., 60c; pkt., 10c.
5542 **Sweet Lavender.** Pure lavender self. Oz., 60c; pkt., 15c.
5555 **Valencia.** Color bright orange, sun-proof. Oz., $1.00; pkt., 25c.
5557 **Vogue.** Standard lilac lavender, flushed rosy lavender and wings clear lilac lavender. Oz., $1.00; Pkt., 25c.
5556 **Vulcan.** Vivid scarlet. Oz., 60c; pkt., 10c.
5585 **Zvolanek's Rose.** A giant rose pink. Oz., 60c; pkt., 10c.
5586 **Zvolanek's Orange.** Oz., 60c; pkt., 10c.

### Special Offer

5596 One pkt. each Mrs. Calvin Coolidge, Blue Bonnet, Majestic Rose, Sweet Lavender and Valencia for 50c.

5595 **Vaughan's Special Mixture** Early Flowering Spencers. All the varieties listed and many others. Oz., 60c; pkt., 15c.

### 10 Best Late Flowering Spencer Sweet Peas

**Collection No. 5325**

Price, one packet of each for 50c.

| | |
|---|---|
| White | Avalanche |
| Salmon Pink | Del Monte |
| Crimson | Crimson King |
| Light Blue | Gleneagles |
| Lavender | Wembly |
| Cream Pink | Mary Pickford |
| Salmon Orange | Gold Crest |
| Dark Blue | Fortune |
| Maroon | Warrior |
| Picotee Edged | Youth |

### 10 Best Early Flowering Spencer Sweet Peas

**Collection No. 5600**

Price, one packet of each for 75c.

| | |
|---|---|
| Lavender | Harmony |
| Rose Pink | Giant Rose |
| Orange | Orange King |
| Salmon Pink | Mrs. Calvin Coolidge |
| White | All-White |
| Clear Blue | Blue Boy |
| Vivid Scarlet | Vulcan |
| Cerise | Glitters |
| Deep Rose | Ball's Rose |
| Royal Purple | Amethyst |

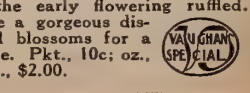
## Late Flowering Spencer

4987 **Avalanche.** Glistering white of great substance. Oz., 25c; pkt., 10c.
5003 **Charity.** Best red. Oz., 25c; pkt., 10c.
5015 **Commander Godsall.** Violet-blue. Oz., 25c; pkt., 10c.
5020 **Constance Hinton.** The best white for outdoor planting. Oz., 25c; pkt., 10c.
5025 **Crimson King.** A rich deep crimson. Oz., 25c; pkt., 10c.
5039 **Del Monte.** Salmon cerise pink. Oz., 25c; pkt., 10c.
5065 **Fiery Cross.** Turkey-red. Oz., 25c; pkt., 10c.
5064 **Fluffy Ruffles.** A new type, duplexed and frilled, with long stems. A lovely rich rose-pink, a gleam of soft salmon, and a bright creamy undertone blend into a harmonious cream-pink shade. Oz., 60c; pkt., 15c.
5063 **Fortune.** Rich dark blue. Oz., 25c; pkt., 10c.
5066 **George Shawyer.** Giant salmon-rose. Oz., 25c; pkt., 10c.
5067 **Gleneagles.** Large lavender. Oz. 25c; pkt., 10c.
5069 **Gold Crest.** Orange tinted salmon. Oz., 25c; pkt., 10c.
5070 **Guinea Gold.** Golden orange. Oz., 25c; pkt., 10c.
5115 **Hawlmark Salmon Pink.** Oz., 25c; pkt., 10c.
5117 **Heavenly Blue.** Delphinium-blue. Oz., 25c; pkt., 15c.
5145 **King White.** Absolutely pure white. Oz., 25c; pkt., 10c.
5167 **Mary Pickford.** Dainty cream-pink, suffused salmon. Oz., 25c; pkt., 10c.
5170 **Mermaid.** Rich true lavender. Oz., 25c; pkt., 10c.
5199 **Pinkie.** Large rose pink. Oz., 25c; pkt., 10c.
5195 **Powers Court.** One of the finest lavenders. Oz., 25c; pkt., 10c.
5200 **Prince of Orange.** Deep orange. Pkt., 15c.
5262 **Renown.** Brilliant shade of carmine-rose. Oz., 25c; pkt., 10c.
5255 **Royal Purple.** The best purple. Oz., 25c; pkt., 10c.
5259 **Royal Salute.** Deep cerise. Oz., 25c; pkt., 10c.
5260 **Royal Scot.** The most brilliant scarlet. Oz., 25c; pkt., 10c.
5310 **Warrior.** Rich chocolate-maroon. Oz., 25c; pkt., 10c.
5293 **Wembly.** Lavender suffused Plumbago blue. Pkt., 15c.
5311 **Youth.** Large white, pink picotee edge. Oz., 25c; pkt., 10c.

For Perennial SWEET PEAS—See Lathyrus Latifolius in Perennial pages.

### Vaughan's Special Mixture

5320 **Spencer Varieties.** This mixture is one we make ourselves from named sorts of late flowering ruffled or Spencer varieties and a few of the early flowering ruffled. The result will be a gorgeous display of wonderful blossoms for a long period of time. Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $2.00.



Statice Sinuata Mixed (For Winter Bouquets)

## STATICE □

Our annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlastings, and have come to be indispensable in making winter bouquets.

4795 **Russian (Suworowii, or Rat Tail)** 1 ft. Flowers bright rose color. Pkt., 15c.

4800 **Bonduellii.** 3 ft. Producing numerous heads of bright yellow flowers. Pkt., 10c.

4801 **Sinuata Rosea Superba.** 3 ft. A charming new bright color. Pkt., 10c.

4802 **—True Blue.** 3 ft. A new deep blue. Pkt. 10c.

4804 **—White.** 3 ft. Pkt., 10c.

4805 **—Mixed.** 3 ft. Pkt., 10c.

## SOLANUM

4785 **Capsicastrum Nanum** ÷ 2 ft. **(Jerusalem Cherry.)** Easily grown plants with ornamental fruit. Especially fine for pots. Pkt., 10c.

4790 **Cleveland Cherry.** This is an improvement on Jerusalem Cherry. Differs from it in habit of growth, which is dwarf and compact and the larger number of berries produced. One of the best house plants for window decoration. Pkt., 15c.

## STEVIA

4825 **Serrata** □ ÷ 2 ft. Free-blooming plants, bearing a multitude of fragrant pure white flowers; suitable for summer or winter blooming and cutting. Pkt., 10c.

## STREPTOCARPUS

4826 **Largest Hybrids.** + 9 in. Handsome pot plants, bearing for a long time in succession large trumpet-shaped flowers, ranging in color from lavender, purple, and rose to pure white. Seedlings raised in early spring flower in summer. Pkt., 25c.

Stock Giant Perfection Mixed

## STOCKS (Levkojen) □

The Stocks represent all the desirable qualities of a flower. The plants have good habit, fine dull or glossy leaves. The flowers appear on long, stiff stalks like small rosettes, are exceedingly fragrant and range through a most complete scale of all the soft and distinct shades.

All Stocks need lime in the soil to produce flowers, lack of this causes the plant to produce great masses of foliage at the expense of the bloom. They should be grown in good rich well limed soil for best results.

### Dwarf German 10 Weeks 1 ft.

This class is a favorite for outdoor bedding.

4830 **White**
4835 **Canary Yellow**
4838 **Flesh**
4841 **Rose Pink**
4845 **Crimson**
4850 **Light Blue**
4853 **Mauve (Water Blue)**
4856 **Dark Blue**

Each of the above, pkt., 10c.

4865 **Best Mixed.** (Mixed only.) ⅛ oz., 50c; pkt., 10c.

### Bismarck 2½ ft.

If sufficient room is given, the plants develop to enormous dimensions, forming magnificent bushes with long and large flower stalks. The best variety for greenhouse use.

4925 **White**
4924 **Appleblossom**
4929 **Old Rose**
4940 **Gold Ball**
4947 **Flesh**
4948 **Golden Rose**
4946 **Chamois**
4945 **Blood-red**
4930 **Lilac**
4932 **Lavender**
4931 **Dark Blue**
4944 **Elk's Pride**

Each of the above, pkt., 15c.

4949 **Bismarck Mixed.** (Mixed only.) ⅛ oz., 50c; pkt., 15c.

Stock Bismarck

### Giant Perfection "Cut and Come Again" 1½ ft.

Useful for outdoor bedding as well as for pots or cut flowers. They throw out numerous side branches, all bearing very double, fragrant flowers.

4875 **Improved Snowdrift White**
4880 **Canary Yellow**
4885 **Pink**
4895 **Scarlet**
4905 **Light Blue**
4915 **Dark Blue**
4890 **Old Rose Improved.** A favorite color in Garfield Park Conservatory in Chicago.
4900 **Empress Augusta Victoria.** Silvery lilac.
4910 **Heatham Beauty.** A rich mauve, shaded terra cotta.

Each of the above, pkt., 10c.

4920 **Giant Perfection Mixed.** (Mixed only.) ⅛ oz., 40c; pkt., 10c.

4970 **Vaughan's Special Mixture of Stocks.** Contains all the varieties listed and many others not cataloged. ⅛ oz., 50c; pkt., 15c.

SWEET ROCKET — See Hesperis in Perennial Pages.
SWEET WILLIAM—See colored perennial pages.
SURPRISE GARDEN — See Page 41.

Natchitoches, La., Oct. 13, 1931
I want to tell you that my Stocks bloomed profusely from Christmas till July in the hottest and dryest of weather.
(MRS.) E. P.

Thunbergia Mixed

## THUNBERGIA

5640 **Alata, Mixed (Black-Eyed Susan)** □ = 5 ft. A lovely trailing plant with large showy flowers. It will trail over the ground, forming a dense mat of foliage and flowers. Colors range through all shades of yellow, orange, buff, to pure white, mostly with jet-black centers, or eyes, which are very effective. ⅛ oz., 30c; pkt., 10c.

## SUNFLOWER (Helianthus) □

These comprise plants of majestic growth and immense showy flowers, suitable for shrubberies, woodlands, wild gardens and subtropical gardening; the dwarfer kinds, with smaller flowers, are charming when grouped in mixed flower borders.

### Large Flowered Tall

2700 **Annuus Purpureus, Gaillardia-flowered or Red Sunflower.** 4 to 8 ft. Some flowers of a rich chestnut-red color, others tipped with yellow and others slightly washed with red. The flowers vary in size, and are of good form, usually having a small disc, and often two rows of long, slightly curled rays. ¼ oz., 25c; pkt., 10c.

2704 **Intermediate Sanguineus Excelsior.** A cross between the Helianthus cucumerifolius purpureus and the Helianthus annual purpureus; from the former it secured its elegant growth, while the latter furnished the large size of the magnificent red flowers. Pkt., 15c.

2705 **Argyrophyllus.** 4 ft. Handsome silvery foliage, single bright yellow flowers enhanced by a black disk perfect pyramidal growth. Pkt., 10c.

2707 **Californicus Fl. Pl.** 5 ft. Double dark yellow. Pkt., 10c.

2709 **Chrysanthemum Flowered Double.** 6 ft. Golden yellow flowers. Pkt., 10c.

2715 **Double Mixed.** Pkt., 10c.

2717 **Globosus Fistulosus Fl. Pl.** 6 ft. Double globe or dahlia sunflower. Flowers a rich saffron color. Pkt., 10c.

2722 **Nanus Flore Pleno.** 2½ ft. Double dwarf, beautiful for massing in beds. Pkt., 10c.

2725 **Russian Mammoth.** Single, of gigantic dimensions. Sow a few seeds in the corner of the garden and it will provide in late Summer a feeding table for a large number of birds. 1 oz., 5c.

### Miniature-Flowered

The cucumerifolius form spreading bushes with small graceful foliage and bear a multitude of small elegantly formed flowers.

2727 **Cucumerifolius.** 3½ ft. Charming small flowers, rich golden yellow with brown-black center. ¼ oz., 25c; pkt., 10c.

2735 **Stella.** Large golden yellow petals; small, dark center. Pkt., 10c.

2737 **Orion.** Petals rolled, resembling Single Cactus Dahlia. Pkt., 10c.

2740 **Purpureus.** Flowers shades of red and yellow. Pkt., 10c.

2745 **Double Hybrids.** Double and semi-double flowers. Pkt., 10c.

2755 **Vaughan's Special Mixture.** Includes all the above of cucumerifolius varieties. ¼ oz., 20c: pkt., 10c.

2760 **Vaughan's Special Mixture of all the single and double Sunflowers.** ½ oz., 25c; pkt., 10c.

# Vaughan's Verbenas □ 18 in.

The rich colors of the Verbena have endeared it to us for years. Most persons know its range of brilliant colors; the pinks are like those found in Trailing Arbutus; the purple is truly royal; the scarlet is like rich velvet; the white is as pure as snow; the blue and lavender tints are dainty; and besides the clear color varieties there are sorts with white and dark eyes, and others that are striped.

### Gigantea

This is a new strain of Grandiflora Verbenas; the plants are compact growers, bearing immense trusses, the individual florets measuring an inch and over in diameter.

5701 **Gigantea Alba.** Pure white.
5702 **—Coccinea.** Scarlet, small eye.
5701A **—Etna.** Geranium-red, with a cream eye.
5703 **—Lucifer.** Vivid scarlet self.
5704 **—Luminosa.** Luminous flame-pink shading to salmon.
5705 **—Rose Cardinal.** Carmine-rose with large white eye.
5706 **—Rosea Stellata.** A pure rose-pink, with large white eye.
5707 **—Violacea Stellata.** Deep violet, white eye.
Each of above, pkt., 15c.
5708 **Gigantea Mixed.** A wonderful mixture of large flowering varieties. The flowers are, as the name indicates, gigantic, and with white eye, the reds particularly attractive. ⅛ oz., 35c; pkt., 15c.

### Hybrida

5660 **Defiance.** An intense scarlet.
5661 **Lucifer.** Vivid scarlet self.
5666 **Blue Shades.**
5670 **Lutea.** Yellow.
5680 **White.** Dense heads of finely shaped white flowers.
5685 **Mayflower.** Various shades of pink.
5700 **Purple Shades.** Dark purple.
Each of the above, pkt., 10c.

5730 **Vaughan's Best Mixture.** It includes all the Mammoth and Gigantea sorts and several other sorts not listed and we feel perfectly safe in stating this mixture of Verbenas will eclipse every other strain offered by any other house, and it will produce flowers that will delight all beholders throughout summer. 1 oz., $3.00; ⅛ oz., 50c; large pkt., 25c; pkt., 15c. VAUGHAN'S SPECIAL

5715 **Mammoth Mixed.** Producing in handsome umbels flowers of large size in beautiful shades of white, rose, scarlet, blue, purple. ¼ oz., 40c; pkt., 10c.

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5750 **Citriodora (Lemon-Scented Verbena)** ÷ An old favorite with fragrant evergreen leaves. It is a low-growing tender plant and may be grown in the garden in summer and in pots in winter, and the leaves dried and laid among linens. Pkt., 10c.
5755 **Erinoides.** 12 in. Forming elegant little spreading bushes with finely cut foliage and pretty heads of bloom, purplish rose changing to Oxford blue. Pkt., 10c.
5760 **Erinoides Alba.** 12 in. Of the same character as the Erinoides purple, but with white flower heads; very pretty. Pkt., 10c.
5765 **Venosa.** 1 ft. Largely used for bedding purposes; strong, thrifty grower, covered with bright purple and heliotrope flowers. Seeds are slow to germinate. Should be sown in the house before March. Remains in bloom until frost. ⅛ oz., 30c; pkt., 10c.

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## TORENIA

5645 **Fournieri** □ + 10 in. Bushy globular plants literally covered with the lovely, richly-colored snapdragon-like flowers of a delightful sky-blue. With a touch of gold on the lip. They are excellent for beds, pots or hanging baskets. Pkt., 15c.
5650 **White Wings.** Flowers white with rose throat. Pkt., 10c.
5651 **Baillonii,** yellow with brown markings. Pkt., 15c.

**Be sure and include some of our Novelties in your order.**

Torenia Fournieri

## TITHONIA

5641 **Speciosa Mexican Sunflower.** ① A rare plant from Mexico. Throwing up from the root many stout, woody stems furnished with rather large foliage. The flowers are large and remind one of an immense single Zinnia; color, dazzling orange-scarlet. It forms a large shrubby plant, flowers for a long period and is especially desirable for planting among shrubs or in the background of wide borders; will also bloom in winter in the house, if lifted before frost. Pkt., 25c.

## TRACHELIUM

5656 **Coeruleum.** □ Height, 18 in. Free-growing annual having large cloud-like heads of tiny blue flowers resembling Gypsophila. Makes a fine pot plant. Pkt., 25c.

## TRITOMA

5655 **Hybrida Mirabilis** □ An annual Red-Hot Poker Plant. Seed should be sown in temperate heat from January to March, pricked off and treated like half hardy annuals. The seedlings may be planted in open ground from end of April to May and they will bloom freely from August to late in the autumn. Pkt., 15c.

### Annuals for a Rock Garden

The Alpine plants are really the true rock plants, but many annuals are needed to complete a rock garden. So in answer to many inquiries we suggest the following varieties:

**Abronia**
**Ageratum Dwarf**
**Alyssum**
**Anagallis**
**Arctotis Grandis**
**Calandrinia Grandiflora**
**Gypsophila Muralis**
**Ionopsidium Acaule**
**Leptosiphon**
**Marigold Signata Pumila**
**Nemophila Insignis**
**Mesembrianthemum Tricolor**
**Nierembergia Gracilis**
**Phlox Dwarf**
**Portulaca**
**Sanvitalia Procumbens**
**Verbena Erinoides**
**Verbena Venosa**
**Zinnia Liliput**
**Zinnia Mexicana**

## VINCA ROSEA (Periwinkle) + 1 ft.

Ornamental free-blooming plants, with dark laurel-like foliage and handsome pink and white flowers. Seed should be sown early and then the plants will bloom the first summer. They can be taken up in the fall like Chrysanthemums, potted, and kept in bloom through the winter. Seed germinates slowly.

5775 **White.**
5780 **Delicata.** Soft pink.
5785 **White with Eye.**
5790 **Pink.**
Each of above, pkt., 10c.
5800 **Vinca Rosea Mixed.** Pkt., 10c.

Vinca Rosea Mixed

# Giant Zinnias

The most gorgeous annuals with a wonderful range of color. Extremely double flowers with long stems and good keeping qualities, make this old-fashioned flower a joy in the garden. If you plant but one annual, plant this. May be taken up when in full bloom and transplanted without any visible effect. If grown in sunny spot in well fertilized soil and watered freely the flowers will be more completely double as lack of these stunts the plant and flowers are apt to revert to the old single type. Has no enemies, either insect or fungus.

### Dahlia Flowered 3 to 4 ft.

In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias.

6132 **Buttercup.** An immense deep creamy yellow.

6131 **Canary Bird.** A delicate shade of primrose.

6133 **Crimson Monarch.** Rich crimson. By far the largest and best of red shades. Flowers often eight inches in diameter.

6134 **Dream.** A fine, deep lavender, turning to purple (Mallow Purple).

6135 **Exquisite.** By far the most pleasing of our collection. Color light rose with center a deep rose. (Tyrian Rose.)

6136 **Golden State.** A very rich orange-yellow (Cadmium). Yellow in the bud, turning to an attractive orange when in full bloom.

6130 **Illumination.** Similar to Exquisite but a striking self-color of deep rose. (Tyrian Rose.)

6142 **Meteor.** A rich glowing deep red; darkest of all red shades.

6138 **Oriole.** It is an immense orange and gold bicolor, changing slightly as it ages.

6139 **Polar Bear.** A very large pure white, the best white yet seen in Zinnias. True Dahlia form.

6143 **Purple Prince.** A fine deep purple of fine form.

6140 **Scarlet Flame.** A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor.

Each of the above, ¼ oz., 75c; pkt., 15c; any 4 pkts. for 50c.

6145 **Dahlia Flowered Mixed.** All the above and others. A very charming and delightful surprise will be the result if you plant this liberally in your garden. Oz., $1.50; ¼ oz., 50c; pkt., 15c.

### California Giants 3 to 4 ft.

They are larger than Colossal and a cross between them and the Dahlia Flowered types. They have smaller flat centers with more loosely placed petals. The petals are decidedly imbricated and the flower from bud to full bloom presents a graceful appearance.

6164 **Cerise Queen.** Beautiful cerise rose.

6162 **Enchantress.** Extra choice pink.

6150 **Lemon Queen.** The petals are light canary on the upper and cerise on the lower side, the two shades blending as the flower develops. It is the only Zinnia with fragrance.

6163 **Miss Willmott.** Soft pink.

6151 **Orange King.** Similar in color to the Calendula of the same name.

6152 **Orange Queen.** Lighter than Orange King.

6167 **Pink Profusion.** Delicate shrimp pink.

6153 **Purity.** A clean pure white.

6166 **Rose Queen.** Tyrian rose with deep rose-red center.

6165 **Scarlet Gem.**

Each of the above, ¼ oz., 75c; pkt., 15c; any 4 pkts. for 50c.

6156 **California Giants Mixed.** Oz., $1.50; ¼ oz., 50c; pkt., 15c.

Zinnia Dahlia Flowered Mixed

Zinnia Colossal Crimson

### Colossal or Giant Flowered 3 ft.

The flowers are of enormous size, thickly set with velvety petals. The plants are healthy, vigorous, branching freely, and make excellent material for groups or cutting.

| | | | |
|---|---|---|---|
| 5940 | **Apricot Yellow.** | 5950 | **Light Salmon.** |
| 5935 | **Buttercup.** | 5975 | **Orange.** |
| 5976 | **Burnt Orange.** | 5960 | **Pink Shades.** |
| 5937 | **Bright Rose.** | 5990 | **Royal Purple.** |
| 5930 | **Cream.** | 5955 | **Shrimp Pink.** |
| 5977 | **Crimson.** | 5980 | **Scarlet.** |
| 5944 | **Salmon Rose.** | 5985 | **Violet.** |
| 5965 | **Golden Yellow.** | 5925 | **White.** |
| 5978 | **Lavender.** | | |

Each of the above, ¼ oz., 35c; pkt., 10c.

6015 **Vaughan's Colossal Zinnias, Mixed.** A mixture we make of all the separate colors and will produce a wonderful effect with its combination of brilliant and delicate shades. Lb., $12.00; ¼ lb., $3.00; oz., $1.00; ¼ oz., 30c; pkt., 10c.

### Giant Picotee

A remarkable new and distinct class with beautiful double flowers in orange, flesh, lemon, pink and cerise, each petal being distinctly tipped with various shades of dark, resembling the Picotee Carnations.

6157 **Giant Picotee Mixed.** Pkt., 15c.

### Quilled Type

6158 **Achievement or Victory Mixed.** The petals are partially tubular or quilled giving the flower somewhat the appearance of a cactus dahlia in various shades of tan color. Pkt., 15c.

6170 **Vaughan's Special Mixture** of all Giant sorts including the cream of the Dahlia Flowered Colossal, California Giants and Picotee mixed. This will produce a mass of color and will make a corner gay in the garden. ¼ oz., 60c; pkt., 25c; 5 pkts. for $1.00.

Zinnia Colossal Golden Yellow

# Zinnias for Bedding □

THESE are smaller and more bushy than the Giant sorts and flower more freely so they can be used to advantage in solid beds and the shortest sorts may be used in edging. The Red Riding-Hood is particularly good, used in this way.

Zinnia Pumila Watermelon Pink

### Pumila Double 18 in.

Extra double flowers, produced on regular dwarf plants.

6080 **Snow Ball.** 6093 **Pink Ball.**
6085 **Golden Ball.** 6095 **Fire Ball.**

6100 **Watermelon Pink.** A very pleasing and charming shade of salmon-rose.
Each of the above, oz., $1.20; ¼ oz., 35c; pkt., 10c.

6105 **Pumila Mixed, all colors.** Oz., 75c; ¼ oz., 25c; pkt., 10c.

6160 **Pumila Picotee Delight.** The petals of the flowers are ruffled and curled, giving a light and dainty effect. In addition, each petal is beautifully picoteed, making it a most striking flower. A mixture of many attractive shades, including salmon, cream, buff, biscuit, golden-yellow and lavender. Pkt., 25c.

6110 **Red Riding-Hood.** 1 ft. Of compact form and covered the entire season with little button-like, intense scarlet flowers not over an inch across; as a border plant it is highly effective. ¼ oz., 30c; pkt., 10c.

6115 **Mexicana Hybrida.** 16 in. Flowers the size of a large daisy, single, semi-double and double, and the colors are in the most unique, pleasing and numerous variations. In it are found shades peculiar to the Marigold, the Gaillardia, and the Chrysanthemum. They are extremely free-flowering and pretty. Pkt., 15c.

6120 **Mexicana Fl. Pl.** 16 in. Double miniature Zinnia, flowers bright golden yellow, fine for edging. This plant deserves wide cultivation. Pkt., 10c.

6125 **Mexicana Fl. Pl. Hybrids.** 16 in. Double flowers in various shades. Pkt., 10c.

## WHITLAVIA

5845 **Gloxinioides Blue (California Canterbury Bells)** □ 1 ft. Flowers deep lavender-blue with white throat resembling small Gloxinias. A very attractive annual which, if better known, would be grown more freely. Pkt., 10c.

## FLOWERS FROM SEED FOR SHADE OR SEMI-SHADE

| | |
|---|---|
| **Achillea** | **Kenilworth Ivy** |
| **Aconitum** | **Lobelia** |
| **Aquilegia** | **Lychnis** |
| **Asperula** | **Mimulus** |
| **Balloon Vine** | **Myosotis** |
| **Begonia** | **Nemophila** |
| **Bellis** | **Pansy** |
| **Campanula** | **Platycodon** |
| **Cowslip** | **Poppy (Perennial)** |
| **Coreopsis** | **Primulas** |
| **Dictamnus** | **Torenia** |
| **Digitalis** | **Trollius** |
| **Godetia** | **Viola Cornuta** |
| **Heuchera** | **Violet** |
| **Impatiens** | |

### Elegans Fl. Pl. Double Flowered 2½ ft.

5860 **Crested and Curled.** The flowers are large, the petals being twisted and curved into most graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnias. Pkt., 10c.

### Pompon or Liliput Double 12 to 15 in.

The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all summer until late in the fall.

6060 **Canary Gem.** 6064 **Purple Gem.**
6061 **Delicate Flesh Gem.** 6065 **Salmon Rose Gem.**
6062 **Golden Gem.** 6066 **Scarlet Gem.**
6063 **Orange Gem.** 6067 **White Gem.**
Each of the above, ¼ oz., 35c; pkt., 10c.

6075 **Liliput Mixed, all colors.** Oz., $1.00; ¼ oz., 30c; pkt., 10c.

## XERANTHEMUM

5849 **Double Mixed** □ 2 ft. Bright and pretty "Everlasting" with silvery foliage and silky flowers in pink, white and purple. Pkt., 10c.

## ZEA (Rainbow Corn)

6175 **Japonica Quadricolor Perfecta** □ 4 ft. This charming grass forms an object of great beauty in mixed beds and borders or isolated in groups on lawns, in subtropical gardens, etc.; it thrives in rich, light, warm soils. The leaves are striped in yellow, green, rose and dark red. Pkt., 10c.

Wild Cucumber

## WILD CUCUMBER

5847 **Echinocystis Lobata** □=. This is the quickest growing climber on our list. Grows wild self-sown, in many parts of the west. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. May be sown on banks, where it will act as soil binder. ¼ lb., 75c; 1 oz., 25c; ½ oz., 15c; pkt., 10c.

## WALLFLOWER (Goldlack) ÷ 1½ ft.

Wallflowers should be better known. Their adaptability for pot culture and out-door bedding and the peculiar sweet fragrance of their flowers should win favor. The oriental coloring of the flowers in their rich reds and yellows is very effective. They are easily grown and last long as cut flowers. Not hardy in the Northern States, should be wintered in cold frames.

5820 **Single Mixed.** Pkt., 10c.
5825 **—Annual Blood-Red.** Pkt., 10c.
5830 **—Annual Golden Gem.** Pkt., 10c.
5835 **—Annual Mixed.** Pkt., 10c.
5840 **Double Mixed.** Pkt., 15c.
5832 **Early Forcing Annual Double.** This was developed by crossing the perennial double with the early annual and should thrive and bloom profusely in warm and dry countries where only the early annual singles are successfully cultivated. A fine pot-plant and if sown early will bloom first year from seed. Pkt., 25c.

Viscaria Mixed

## VISCARIA

5805 **Mixed** □ 1 ft. Very showy and effective garden annual, producing freely throughout the summer large single flowers in red, white and blue shades. Very bright and effective for beds and useful for cutting. ¼ oz., 25c; pkt., 10c.

## VIOLA CORNUTA (Tufted Pansies) □

Though the flowers are not as large as the regular pansies, they bloom so freely that many people consider them superior where a mass of color is desired. The plants bloom for a long period and the colors are particularly clear and distinct. The flowers are light and graceful, and not so stiff as those of the regular pansy.

5806 **Alba.** Large white flowers.
5807 **Admiration.** Violet-blue flowers.
5808 **Black Prince.** Rich velvety black.
5809 **Blue Perfection.** Pale blue flowers.
5810 **Lutea Splendens.** Bright yellow.
5811 **Papilio.** Flowers soft lavender-purple, lower petals flushed white.
5812 **Rose.**
Each of the above, pkt., 10c.

5813 **Vaughan's Improved Scotch Pansies.** Produces flowers with "faces," the colors range from pale lavender to deep rich purple, many charming intermediate shades. Pkt., 25c.

5814 **Cornuta Mixed.** Pkt., 10c. ⅛ oz., 35c.

See also Perennial and Novelty pages.

## VIRGINIA STOCK

5815 **Mixed** □ 6 in. Sown early these pretty annuals are gay in the period between the spring and summer flowers, their fresh bright colors in edgings and beds producing a charming effect. ¼ lb., 60c, oz., 25c; ½ oz., 15c; pkt., 10c.

Virginia Stock

# Seeds and Plants of Perennial Specialties

Note—All plants are F. O. B. our Greenhouses, Western Springs, Illinois. Postage must be added to cover cost of transportation at rates noted on page 73 or else they will be sent express at buyer's expense.

**For complete list of perennials, seeds and plants, see pages 73 to 85. Varieties marked × are suitable for Rock Garden.**

Aquilegia Mrs. Scott Elliott's Strain of Long-Spurred Hybrids.

## AQUILEGIA (Columbine)

Beautiful hardy perennials, producing graceful spurred flowers on 2-ft. stems. One of the most important of our early hardy flowers and should be grown in quantity, being easy to establish and thriving in almost any situation.

7119 ×**Alpina.** Blue. 12 in. April-July. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50.

7120 **Canadensis (American Columbine).** 1 to 2 ft. May-July. Handsome scarlet and orange flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7121 **California Hybrids.** Flowers large, long spurred, dark carmine lake with light yellow corolla. Pkt., 20c.

7125 **Chrysantha.** 3 to 4 ft. May-August. Yellow, long spurred. **Seeds,** 15c per pkt.

7130 **—Fl. Pl.** 3 ft. Double golden yellow. Pkt., 15c.

7135 **—Grandiflora Alba.** 3 ft. Large flowering, pure white, long spurs. **Seeds,** 15c per pkt.

7126 **—Silver Queen.** Long spurred silvery white flowers. **Seeds,** 25c per pkt.

7140 **Coerulea (Rocky Mountain Columbine).** 1 to 2 ft. April-July. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. **Seeds,** 10c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

7145 **—Rosea (Rose Queen).** 2½ ft. Beautiful flowers of light to dark rose with white center and yellow anthers, a most delicate combination of colors. **Seeds,** 25c per pkt.

7151 **Dobbie's Imperial Hybrids.** A wonderful hybrid mixture. Contains every conceivable shade. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00. Two year clumps, 3 for $1.25; doz., $4.00; 100, $25.00.

7153 **Farquhar Pink.** 2-ft. Beautiful pink with lighter centers and creamy anthers. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00. Two year clumps, 3 for $1.25; doz., $4.00.

7150 **Mrs. Scott Elliott's Strain of Long-Spurred Hybrids.** The blooms are of large size and the spurs very long. The colors range through shades of lavenders, mauves, blues, purples, whites, creams, yellows, pinks, reds, etc. The whole form a most harmonious mass of coloring seldom seen in other flowers. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00. Two year clumps, 3 for $1.25; doz., $4.00; 100, $25.00.

7152 **Jaetschaui.** Large-flowered yellow with long, red spurs. **Seeds,** 25c per pkt.

7155 **Long-Spurred Columbines.** Mixed. Pkt., 15c.

7165 **Skinneri (Mexican Columbine).** 2 to 3 ft. June-August. Large scarlet and yellow flowers. Pkt., 15c. **Plants,** 3 for $1.00; doz., $3.50;

7175 **Single Mixed.** Many varieties. **Seeds,** 10c per pkt.

7180 **Double Mixed.** **Seeds,** 10c per pkt

7190 **AQUILEGIA Vaughan's Special Mixture** includes all the varieties mentioned and many new colors not found in any named collection. **Seeds,** 25c per pkt.

**For other varieties, see Novelty pages.**

## CAMPANULA

A large, beautiful and most important family for the flower garden. The dwarf species are charming for rock gardens. The Persicifolia varieties are good perennial plants. Pyramidalis is a tall-growing species, continuing to bloom six weeks or more.

7260 ×**Carpatica (Harebell).** 9 in. June to Aug. Forms tufts of neat folliage above which are borne on slender erect stems, about 12 in. high, wide, cup shaped, upright blooms of a glistening light violet-blue, freely produced. Splendid for edging, dry walls and when grouped. It also does well in partial shade. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7265 ×**—Alba.** 9 in. July. Pure white. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7270 **Medium Calycanthema (Cup and Saucer). Mixed colors.** 2-ft. June-Aug. 10c pkt.

7275 **—Calycanthema. White.** 10c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

Campanula Calycanthema (Cup and Saucer) Mixed

7280 **—Calycanthema. Pink.** 10c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7285 **—Calycanthema. Blue.** **Seeds,** 10c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7284 **—Calycanthema. Lilac.** **Seeds,** 10c per pkt.

7295 **Medium (Canterbury Bell). Single white.** 2 ft. June. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7300 **—Single Blue.** **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7301 **—Single Lilac.** **Seeds,** 15c per pkt.

7305 **—Single Pink.** **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7310 **—Mixed Colors (Canterbury Bells).** Pkt., 10c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7315 **—Double White.** 7320 **—Double Blue.**

7325 **—Double Pink.** 7330 **—Double Mixed.** Each of the above, per pkt., 10c.

7335 **Lactiflora Coerulea.** Broad-leaved. 2½-6 ft. July. Light blue. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7338 **Latifolia Macrantha.** 3 ft. Erect stems, large bells, violet-blue. **Seeds,** 15c per pkt.

7344 **Persicifolia (Peach Bells). Blue.** 2-3 ft. June-July. Fine border plant. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7345 **—Alba. White.** **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7346 **—Telham Beauty.** 4 ft. It produces on long stems very large globular open flowers, of a lovely china-blue with silvery shading. **Seeds,** 50c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100 $20.00.

CAMPANULA—Continued

7350 **Persicifolia, Mixed.** Blue and white. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7351 **—Coerulea Plena.** Double blue peach bells. Height, 30 in. **Seeds,** 35c per pkt.

7352 **—Alba Plena.** Double white. Pkt., 35c.

7334 ×**Fragilis.** Is of prostrate trailing habit and has large pale blue flowers. It likes a well drained position with as little moisture as possible. Not hardy. **Seeds,** 25c per pkt.

×**Portenschlagiana.** 8-in. Purple blue. June, continuing all summer. Valuable rock species. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7355 **Pyramidalis (Chimney Bellflower).** Blue. 5-6 ft. August. **Seeds,** 10c per pkt.

7360 **—Alba.** **Seeds,** 15c per pkt.

7365 **—Mixed.** **Seeds,** 10c per pkt.

7361 ×**Turbinata.** 6-in. A beautiful variety, forms close mats of foliage and bears large cup-shaped flowers of blue, sitting close to the plant and fairly smothering it. June-July. **Seeds,** 20c per pkt.

7362 ×**—Alba.** Same as above with white flowers **Seeds,** 15c per pkt.

7366 ×**Rotundifolia (Blue Bells of Scotland)** 6-12 in. Matted foliage, slender, branching stems, covered with dainty frail blue flowers. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7371 ×**Rotundifolia Olympica** (falsely introduced as Piperi). **Seeds,** 35c per pkt.

7367 **Trachelium. (Coventry Bells.)** 2-3 ft. Crowded heads of lavender blue. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two year clumps, 3 for $1.00; doz., $2.50; 100, $15.00.

7370 **Vaughan's Special Mixture.** A grand assortment of all varieties. Fine for cut flowers. **Seeds,** ⅛ oz., 50c; 25c per pkt.

**For other varieties, see Novelty pages.**

## CHRYSANTHEMUM (Hardy Daisy)

**See illustration on next page.**

Fine hardy border plants, large, daisy-like flowers being produced in great profusion all summer.

7500 **Maximum, Daisy Shasta Alaska.** 2-2½ ft. Splendid for cutting. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Maximum, Shasta Alaska "Supreme".** 2-ft. White. A large flowered, stout stemmed variety, superior to the ordinary variety. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7501 **Westralia.** A very fine Shasta Daisy similar to Alaska only of higher growth and blooming slightly earlier. Height 3 ft. Pkt. 25c.

## COREOPSIS (Tickseed)

7495 **Lanceolata Grandiflora.** 2 ft. June-October. Large orange-yellow flowers on long graceful stems. About the best yellow cut flower blooming incessantly. **Seeds,** ¼ oz., 25c; 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**See also Novelties.**

Coreopsis Lanceolata Grandiflora

# Seeds and Plants of Perennial Specialties

Hardy Aster, see page 74

## DELPHINIUM (Perennial Larkspur)

Few plants are so handsome in the garden as the perennial Larkspurs. There are many species in cultivation, but the most important are the tall hybrids, of which there are many varieties with a wonderful range of color. They are valuable for their great variety in height, varying from 1 to 6 ft.; for their great variety in shades of color, varying from the palest lavender through every conceivable shade of blue to deep indigo. They thrive in almost any situation. A good, deep, rich soil will repay with larger and better flowers. Remove the flower before the seed pods form and they will flower later in season. The Butterfly Delphiniums are forms of Delphinium Chinese, height 2-3 ft. Though perfectly hardy perennials, they have the special merit of developing to full size the first year, when sown in frame in February or March.

7510 **Blue Butterfly.** Deepest blue. Pkt., 15c.
7515 **Lavender Butterfly.** Pale blue. Pkt., 15c.
7516 **White Butterfly.** Pure white with sulphury buds. **Seeds,** 15c per pkt.
7517 **Cardinale.** "Scarlet Larkspur," a native California species with long spikes of scarlet flowers, seed germinates slowly. 2-3 ft. Pkt., 25c.
7520 **Chinese Blue.** 2-3 ft. Pure blue in branching dwarf spikes. Very graceful for cutting. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-yr. clumps, 3 for $1.00; doz., $3.50; 100, $20.00.
7525 **—Album.** 2-3 ft. Pure white. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-yr. clumps, 3 for $1.00; doz., $3.50.
7526 **—Tom Thumb Ultramarine.** A pretty dwarf species, with beautiful flowers in open panicles in ultramarine blue. **Seeds,** 25c per pkt.
7521 **—Azure Fairy.** Azure blue. Pkt., 20c.
7530 **—Mixed. Seeds,** 10c per pkt.

Daisy Shasta Alaska

DELPHINIUM—Continued

7535 **Elatum Hybridum, Single Mixed.** 3 ft. June-August. **Seeds,** 10c per pkt.
7540 **—Double Mixed.** 3 ft. **Seeds,** 15c per pkt.
7541 **Summer Cloud.** The flowers are pure white and come true from seed. **Seeds,** 50c per pkt. **Plants,** 3 for $1.40; doz., $4.50
7545 **Formosum.** 3 ft. June-July. Deep blue, white eye, open spike. **Seeds,** Pkt., 15c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-yr. clumps, 3 for $1.00; doz., $3.50; 100, $20.00.
7550 **Belladonna Improved Cliveden Beauty. (Light Blue).** 2 ft. June-July. Flowers exquisite shade of turquoise blue. **Seeds,** 20c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7551 **Bellamosum.** This is a dark form of the light blue Belladonna with intensely rich, deep blue flowers. **Seeds,** 20c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-yr. clumps, 3 for $1.00; doz., $3.50; 100, $20.00.
7555 **Indigo (True Blue).** 4 ft. Pure indigo-blue, comes true from seed. **Seeds,** 35c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00. Two-yr. clumps, 3 for $1.25; doz., $4.00; 100, $30.00.
7560 **Nudicaule.** 1-1½ ft. April-July. Dwarf brilliant scarlet flowers. Seed very slow of germination. **Seeds,** 25c per pkt.
7561 **—Lemon Gem.** Clear yellow self. Pkt., 25c.
7563 **—Chamois. Seeds,** 35c per pkt.
7565 **Zalil.** 3 ft. June-July. Sulphur yellow. Seed germinates very slowly. **Seeds,** 25c per pkt.

7564 **Blackmore and Langdon Strain.** All the clear shades of blue with many opaline variations, with bees of contrasting colors. **Seeds,** 50c per pkt.; ⅛ oz., $1.25. **Plants,** 3 for $1.25; doz., $4.00; 100, $25.00.

Delphinium Vaughan's Gold Medal Hybrids

7570 **Vaughan's Gold Medal Hybrids.** This strain is especially grown for us, the seed being saved from selected plants. Many of them are double flowered, and range in color from pale lavender to indigo-blue. **Seeds,** 25c per pkt.; ⅛ oz., 75c. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

7569 **Wrexham Hollyhock-flowered Strain.** New giant-flowered strain of superior quality. Flowers in blue, white and pink combinations, many of them bicolor, many of them 1½ to 2 inches in diameter. Named "Hollyhock" for the height and immense blooms characteristic to this variety. A fair proportion are double and the coloring is superb. **Seeds,** 50c per pkt. **Plants,** 3 for $1.50; doz., $5.00; 100, $35.00.

7571 **Vaughan's Special Mixture.** This contains the Elatum varieties, both double and single, the Butterfly, Chinese and all the various kinds and will supply a wonderful array of bloom in the garden all summer long. **Seeds,** 35c per pkt.

## DIGITALIS (Foxglove)

These produce spires of blossoms 3 to 5 ft. high. Stately old garden favorites for garden, shrubbery borders and naturalizing in suitable places.

7751 **Canariensis.** Canary yellow. Pkt., 25c.
7750 **Grandiflora.** 2 to 3 ft. June-July. Yellowish flowers marked with brown. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7730 **Gloxiniaeflora, White.** Flowers shaped and spotted like a gloxinia. 2-4 ft. June-July. **Seeds,** pkt., 10c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

Digitalis Vaughan's Special Mixture

DIGITALIS—Continued

7735 **Gloxiniaeflora Pink. Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7736 **—Isabellina.** 5 ft. A very striking new variety, producing yellow flowers which gradually develop a chamois or buff shade. Pkt., 25c.
7740 **—Purple. Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7745 **—Mixed Colors.** Pkt., 10c.
7755 **Maculata Iveryana.** Splendid spotted. **Seeds,** 10c per pkt.
7760 **Monstrosa Mixed.** Long spikes surmounted by one enormous flower. **Seeds,** 10c per pkt.
7765 **Purpurea Mixed.** Many colors. Pkt., 10c.
7768 **The Shirley Hybrids.** 6 to 7 ft. The flower-heads are over 3 ft. long, covered with big bell-shaped blossoms. Colors range from white and shell-pink to deepest rose, many attractively dotted with crimson or chocolate. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.
7769 **Hybrida Lutzii.** 4 ft. Salmon shades. Pkt., 20c.
7775 **Vaughan's Special Mixture of Digitalis.** The above, and other colors. Pkt., 15c.

## GAILLARDIA (Blanket Flower)

June to October. 2 ft. Their long-flowering period, long stems and bright colors make these one of the most valuable of perennials, being easily grown in beds or borders in ordinary garden soil.

7810 **Grandiflora.** Mixed. Composite flowers, variegated with shades of red and yellow. Pkt., 10c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7815 **—Semi-plena.** Double row of petals, yellow with red center. **Seeds,** 10c per pkt.
7811 **—Dazzler.** Large golden yellow flowers with rich maroon center. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

Gaillardia Grandiflora Mixed

# Seeds and Plants of Perennial Specialties

Hollyhock Double Vaughan's Prize Mixture

GAILLARDIA Grandiflora—Continued

7820 **Grandiflora Compacta.** Varied colored compact flowers well above foliage. **Seeds,** 10c per pkt.

7825 **Kermesina Splendens.** Center crimson, canary-yellow border. **Seeds,** 10c per pkt.

7836 **Portola Hybrids.** 2½ to 3 ft. The stems are strong, and stiff. The flowers are nearly 4 in. in diameter, the petals being very broad and overlapping, of great substance; in color a brilliant scarlet with coppery hue which is intensified by the golden yellow with which each petal is heavily tipped. Pkt., 25c.

7829 **Sibylla.** Flowers large, vivid carmine, tipped white, with dark crimson center. Pkt., 25c.

7826 **Stand-Holder.** Large flowers, more or less yellow bordered, and with lighter or darker red wings around the center. The petals are broad but occasionally tubular with an inclination to doubleness. Blooms early on long stiff stems. Pkt., 25c.

7827 **Maxima.** Very fine gold and yellow flowers. Pkt., 20c.

7831 **Tangerine.** Compact grower. Large tangerine orange colored flowers. An absolutely distinct color. **Seeds,** 25c per pkt.

7835 **New Hybrids.** Very large flowers, in a great variety of colors. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz. $3.50; 100, $25.00.

## PHYSALIS FRANCHETTI

8345 **Chinese Lantern Plant.** 1½ ft. Flowers yellow with dark center. Produces balloon-like husks the second year from seed, which turn bright red when ripe and resemble Chinese lanterns, which are useful in winter bouquets. **Seeds,** 10c per pkt. **Plants,** 3 for 65c; doz., $2.00; 100, $12.00.

Physalis Franchetti (Chinese Lantern Plant)

## HOLLYHOCK 6 to 8 ft.

One of the best hardy garden flowers. Makes a charming background for a garden. Aug.-Sept.

### Double Varieties

| | | | |
|---|---|---|---|
| 7970 | White | 7995 | Crimson |
| 7992 | Yellow | 8000 | Blood-Red |
| 7990 | Salmon | 7975 | Maroon |
| 7980 | Rose | 7985 | Black |

8005 **Newport Pink.** The finest pure pink, exquisite shade. **Seeds,** 15c per pkt.

Each color except as noted. **Seeds,** 10c per pkt. **Plants,** of the **above colors,** 3 for $1.00; doz., $3.50; 100, $25.00.

8015 **Vaughan's Prize Double Mixture.** Finest shades in perfect flowers. **Seeds,** ¼ oz., 40c; 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8010 **Allegheny Mixed.** Flowers come single, semi-double and double, about 5 inches across, and are beautifully fringed. **Seeds,** 10c per pkt.

8006 **Alameda Pink.** The foliage is deep green and thick and large and is quite distinct from other varieties of hollyhock. The blossoms are very large, 4½ inches across. Blooms first year if sown early. **Seeds,** pkt., 25c.

7969 **Double Exquisite.** Mixed. New large flowers with fringed, white margined petals. Pkt., 25c.

7971 **Kew Garden Pink.** Large flowers, satiny pink, 6 to 7 in. in diameter with broad guard petals with a tuft of petals in center. **Seeds,** pkt., 25c.

8004 **Double Lilac Beauty.** A clear bright lilac color. A new shade. **Seeds,** pkt., 25c.

8003 **Double Queen of Sheba.** Beautiful primrose, buff with rosy reflection. **Seeds,** pkt. 25c.

8008 **Double Imperator Improved.** Very large flowers, frilled and fringed petals of new and different colors. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

### Single Varieties

More permanent and hardy than the double and if planted with a deep green background, such as arborvitae hedge, they afford a most striking effect.

| | | | |
|---|---|---|---|
| 8045 | White | 8040 | Rose |
| 8051 | Yellow | 8020 | Red |
| 8050 | Salmon | 8030 | Black |
| 8025 | Pink | | |

Each, **Seeds,** 10c per pkt.

8055 **Mixed. Seeds,** ¼ oz., 30c; 10c per pkt.

## PHYSOSTEGIA (False Dragon Head)

3-4 ft. Extremely beautiful with spikes of rosy pink, lilac or white flowers, which are tube-shaped similar to a tiny antirrhinum blossom. The buds and flowers grow on the stem as if growing four sides of a square; very attractive foliage surrounding the graceful spikes. Flowers in August.

8350 **Virginica.** Dense bushes with spikes of delicate lavender pink tubular flowers. June-September. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8355 **—Alba.** White. June-Sept. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8356 **—Gigantea.** Lilac-rose. **Seeds,** 25c per pkt.

8357 **—Compacta Rosea.** Rose. Pkt., 25c.

**Grandiflora "Vivid."** 20 in. One of the best of the late-blooming perennials. It blooms three weeks later than the other Physostegias; the individual flowers are larger and of a deeper, much more vivid pink, and they last a long time when cut. Thrives in almost any fairly sunny location and should be in every garden. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

## PYRETHRUM ROSEUM (Painted Daisy)

One of the most valuable of our early summer flowers. Charming color, and wonderful lasting properties as a cut flower; flowers in May and June, and frequently in August and September; in all shades of rose and pink. 1-2 ft.

8430 **Hybridum Double Mixed.** Extra choice, selected seed. Only a small percentage will be double, balance will be semi-double and single in fine variety. **Seeds,** 35c per pkt.

8437 **—Comet Flowered Ostrich Feather.** Single and semi-double flowers with rolled and twisted petals. Pkt., 25c.

8440 **—Grandiflorum, Single Mixed.** Pkt., 15c.

8441 **—Album.** White.

8442 **—Carneum.** Flesh.

8443 **—Roseum.** Rose.

Each of the above, pkt., 15c.

8436 **James Kelway.** Rich velvety blood red, **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

8444 **—Atro-sanguineum.** Blood-red. Pkt., 15c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.25; doz., $4.00; 100, $30.00.

8435 **—Single Mixed. Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8439 **Uliginosum.** 4 ft. Large giant daisy-like white flowers, in great profusion in fall. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

Sweet William Vaughan's Special Mixture

## SWEET WILLIAM (Dianthus Barbatus)

Sweet Williams look well in solid beds of masses and require a good, rich, well manured soil to grow them to perfection. Excellent border plants and fine for cut flowers. Plants grow 18 to 24 in. high.

7640 **Copper Red.** A new and rich color. Pkt., 15c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7645 **Diadematus.** One of the prettiest; flowers rose, spotted and sprinkled with white. Pkt., 10c.

7650 **Johnson's Giant.** The range of color includes shades which are not to be found in other strains, and the peculiar and delicate markings on the flowers are most attractive. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7655 **Nigrescens.** Almost black. **Seeds,** 10c per pkt.

7660 **Pink Beauty (Newport Pink).** Pkt., 10c. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7635 **Scarlet Beauty.** A charming and distinct color. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7665 **Single Albus.** White. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7670 **—Atro-sanguineus.** Blood-red. **Seeds,** 10c per pkt.

7675 **—Roseus.** Pink. **Seeds,** 10c per pkt.

7685 **—Giant-Flowered Mixed.** Pkt., 10c.

### Double Varieties

Seedings of all double Sweet William produce about 40% of single blooming plants.

| | | | |
|---|---|---|---|
| 7690 | White. | 7700 | Blood-Red. |
| 7695 | Rose. | 7703 | Nigrescens (Black). |
| | | 7705 | Mixed. |

Seeds, each of above, pkt. 10c.

7710 **Double Giant-Flowered Mixed.** Pkt., 15c.

7715 **Vaughan's Special Mixture, Sweet William.** A mixture of all the beautiful varieties here listed and others. This is sure to please in the varied and unique coloring and markings of the flowers. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

Pyrethrum Roseum Hybridum Grandiflorum (Painted Daisy)

# Vaughan's Perennial Flower Seeds and Plants

Note—All Plants are F. O. B. our Greenhouse, Western Springs, Illinois. Postage must be added or they will be sent express at buyer's expense.

**Plants Marked × Suitable for Rock Garden**

We recommend sowing perennial seeds in spring. Seed germinates better in the cool weather than in the heat of midsummer and the seedlings have an opportunity to develop into sturdy little plants by fall which permits them to winter-over more successfully. Make a seed bed where the amount of light and water can be controlled. Transplant when large enough to rows in the garden and in the fall reset in permanent location where they are to flower the following year. The majority of these perennials bloom the second year from seed although some like Coreopsis and Gaillardia, if sown early, bloom the first year. Some perennials are very slow and uneven of germination Seed may lie in ground a year. Perennials should be placed in clumps of three or five and left undisturbed for several years.

ACHILLEA, The Pearl

## ACANTHUS

7000 **Latifolius.** August. 3 ft. Handsome plant, broad deeply cut leaves; beautiful for solitary plants in lawn or for grouping with other plants. Pkt., 10c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7001 **Mollis.** Flower spikes 4 ft. high of white and rose flowers. Seeds germinate very slowly. **Seeds,** 10c per pkt.

## ACHILLEA (Milfoil. Yarrow)

Achilleas are of easy culture and grow in any good garden soil, but preferring sun. They are useful for the border, wild garden or shrubbery; also for cutting.

7007 ×**Ageratum.** 1 to 2 ft. With Ageratum-like leaves. A pretty alpine of compact habit. Yellow, sweet-scented. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7008 **Parker's Variety.** 2½ to 3 ft. June-Sept. Clear yellow flower-heads. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7009 **Millefolium Kelwayi.** 2 ft. Carmine rose. Pkt., 35c. **Plants,** 3 for 85c; doz., $2.50.

7011 **—Ruber.** 2 ft. Magenta red. Pkt., 25c.

7010 **Ptarmica, Fl. Pl. The Pearl.** 2 ft. June to August, Pure white, double flowers, fine for cutting. Pkt., 20c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Ptarmica, Boule de Niege (Ball of Snow).** 2 ft. June-Sept. White. Fine cut flower variety. **Plants,** 3 for 85c; doz. $2.50; 100, $15.00.

## ACONITUM (Monkshood)

Bold spikes of hood-shaped flowers, valuable for cutting. Seed germinates very slowly. Do not plant near vegetable gardens. Roots are poisonous.

7015 **Fischeri.** 2 ft. September. Dwarf variety with pale blue flowers. **Seeds,** 15c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

**Spark's Variety.** 2½-3 ft. July-August Darkest blue of all. **Plants,** 3 for $1.00; doz., $3.50.

7020 **Napellus.** 2½ ft. July-August. Fine rich blue flowers. **Seeds,** 10c per pkt.

7025 **Wilsonii.** 4-6 ft. September. Clear blue hooded flowers. Excellent for cutting. Pkt, 15c.

### Seed Germinates Slowly and Irregularly

of the following varieties and seed bed should be prepared where it will be undisturbed for a year or more.

**Acanthus Mollis, Aconitum, Adonis Vernalis, Anemone, Asperula Odorata, Clematis, Delphinium Cardinale, Delphinium Zalil, Delphinium Nudicaule, Dictamnus, Dielytra, Eremurus, Gentiana Acaulis, Helleborus Niger, Incarvillea, Iris, Meconopsis Baileyi, Peony, Phlox Decussata, Primulas, Trollius.**

### Order Plants

by **name** and on the **separate order sheet** provided for them. Give quantities desired in plain figures and write only one kind on each line.

### Prices of Plants

The time involved in assembling long lists of plants when ordered one of a kind, compels us to charge proportionately higher for single plants; on the other hand we make the price of twelve and three-of-a-kind so attractive that it should induce our customers to buy at least three-of-a-kind.

### Relative Prices Are as follows:

| | 3 for | Each |
|---|---|---|
| Plants priced at | $0.65 | $0.25 |
| | .85 | .35 |
| | 1.00 | .45 |
| | 1.25 | .50 |
| | 1.35 | .55 |
| | 1.50 | .65 |

25 plants of a variety at the 100 rate where listed by the hundred.

### Plants by Parcel Post

If to be sent by parcel post add postage as follows: Single plants, **5c**; 3 plants, **10c**; 6 plants, **15c**; 12 plants, **25c**. We accept no responsibility for delays or conditions that may prove injurious to the contents.

### Plants by Express

We recommend this mode of transit where quantities are 12 plants or over. We pack carefully, but accept no responsibility for delays over which we have no control that may cause injury to the contents.

### Order for Seeds

The numbers in left-hand column indicate varieties of which we offer seed. The number is a sufficient designation and more acceptable to us than the name when ordering seeds. Where no number appears, we offer plants only. In many cases we offer both seeds and plants.

## ADLUMIA (Alleghany Vine)

7030 **Cirrhosa.** 15 ft. The feathery foliage is like the Maiden-hair Fern. Delicate rose pink and white flowers cover the plant. **Seeds,** 10c per pkt.

## ADONIS

7035 **Vernalis.** 18 in. Large bright yellow flowers with elegant foliage. Blooms in April-May. Seed germinates very slowly. **Seeds,** 10c per pkt.

ACONITUM (Monkshood)

ANCHUSA Dropmore

## AGATHEA

7040 **Coelestis (Blue Daisy).** Flowers sky-blue with yellow disk. Useful in the border, for bedding and as a pot plant; not hardy. Pkt., 10c.

## AGROSTEMMA

7045 × **Coronaria Varieties Mixed.** 1 to 2 ft. Attractive free flowering, producing bright-colored flowers on long, slender stems like a single pink; blooms the first season; fine for cutting. June-September. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7048 × **Coronaria Atrosanguinea.** Blood-red, **Seeds,** 10c per pkt.

7049 **Hybrida Walkeri.** Brilliant rosy-crimson flowers. June to Aug. **Seeds,** 10c per pkt.

7050 **Flos Jovis.** 1 ft. Rosy purple flowers in summer. **Seeds,** 10c per pkt.

## AJUGA (Bugleweed)

A useful plant for the rockery and for carpeting the ground, particularly in shady positions, as under trees where grass will not grow.

×**Reptans.** 3 to 4 in. May-June. Brilliant bronzy-purple foliage and blue flowers. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## ALSTROEMERIA

Belongs to Amaryllis order. Narrow lance-shaped leaves and richly colored flowers borne in terminal umbels on long wiry stems. Flowers last a week or ten days in water. Seed germinates slowly. They require some protection during winter.

7052 **Aurantiaca.** Flowers orange color streaked with red. Quite hardy. Pkt., 25c.

7053 **Pulchra.** Known as St. Martin's Flower. Flowers purplish on outside, edges sulphur-white, with fine yellow upper segments dotted with deep red spots. Pkt., 25c.

## AMPELOPSIS

7060 **Veitchii (Boston Ivy).** Small leaved, self-clinging, hardy vine. **Seeds,** 10c per pkt.; 50c per oz. **For Plants see Hardy Vines, page 97.**

## ARENARIA

These are extremely pretty little alpine plants and will thrive in any ordinary soil in exposed places.

7214 ×**Montana.** 4 inches. Grows in close tufts, profusely covered with small silvery white flowers which appear quite early in the season. Pkt., 25c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

# Vaughan's Perennial Flower Seeds and Plants

ANEMONE Japonica

## ALYSSUM (Madwort)

Showy free flowering spring-blooming plants. Valuable for front row in border or rock garden.

7054 ×**Argenteum.** 1 ft. Dwarf, dense grower, yellow flowers, in bloom all summer, leaves silvery underneath. **Seeds,** pkt., 10c.

7055 ×**Saxatile Compactum (Basket of Gold).** 9 in. May-June. Producing masses of golden flowers very early. **Seeds,** pkt., 10c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7056 ×—**Compactum Sulphureum.** Pale lemon-colored flowers. **Seeds,** pkt., 15c.

7058 **Rostratum.** 20 inches Flowers deep yellow in dense heads which fairly cover the plant in summer. Leaves 2 inches long, broad and oblong pointed and hairy. **Seeds,** pkt., 25c.

## ANCHUSA

Stately and handsome perennials belonging to Forget-me-not family. The leaves are rough and hairy and the drooping flowers are borne in racemes on branching stems.

7070 **Italica, Dropmore Variety.** 5 ft. June-July. Beautiful gentian-blue flowers, Thrives best in partial shade. **Seeds,** pkt., 15c. **Plants,** 3 for 85c; doz., $2.50, 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50.

7069 —**Lissadell.** 6 ft. Clear gentian-blue large flower. **Seeds,** pkt., 25c.

7072 —**Opal.** 3-5 ft. June-July. A splendid lustrous light blue **Seeds,** pkt., 15c.

7073 ×**Myosotidiflora.** 1 ft. A Russian species, bears in April a profusion of pretty pale blue Forget-Me-Not flowers. **Seeds** (5 seeds), pkt., 35c, **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

## ANEMONE (Wind Flower)

A genus which furnished a number of very showy species of hardy perennials for border decoration, also attractive flowers for cutting. Some commence to flower very early in the year, and others contribute largely to the gaiety of the garden in autumn. Seeds germinate very slowly.

7075 ×**Coronaria (Poppy Anemone). Mixed colors.** Early spring-June. 6-12 in. **Seeds,** pkt., 10c.

7080 ×—**St. Brigid's Strain.** May-June. Double and single mixed. 12 in. A beautiful selection in a wonderful array of colors. **Seeds,** pkt., 20c.

7079—**Double Chrysanthemum Flowered. Seeds,** pkt., 20c.

7077—**His Excellency.** A large single scarlet flower. **Seeds,** pkt., 25c.

**Anemone Japonica (Japanese Windflower).** A valuable and beautiful species 2 to 3 ft. tall, blooming freely from late August till severe frosts. One of the most important garden plants; the graceful blooms, often 3 inches across, borne on long stems make a wonderful display and are fine for cutting. They prefer shade, moisture, a fertile and well drained location. Protect in winter. When once established they should not be disturbed and will gain in size and beauty each year.

—**Alba.** White, yellow center.
—**Alice.** Silvery rose pink.
—**Lorelei.** Lilac rose, semi-double.
—**Queen Charlotte.** La France pink, semi-double.
—**Richard Arends.** Large shell pink.
—**Whirlwind.** Full double white.

**Plants,** any of above Anemone Japonica, 3 for $1.00; doz., $3.50; 100, $25.00.

ANEMONE—Continued

7090 ×**Pulsatilla (Pasque Flower).** 1 ft. April-May. Well adapted for rockwork or border, flowers varying from lilac to purple. **Seeds,** pkt., 10c. **Plants,** 3 for $1.00; doz., $3.50.

7095 ×—**Rubra.** 6 to 9 in. April-May. Dark red, erect flowers. **Seeds,** pkt., 15c. **Plants,** 3 for $1.00; doz., $3.50.

7100 ×**Sylvestris (Snowdrop Windflower).** 1 to 1½ ft. Large, nodding, sweet-scented white flowers, tinged lavender. April-May. **Seeds,** pkt., 15c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

### Anemone Collection No. 74

One plant each of 4 varieties our selection for $1.35.

## ANTHEMIS (Marguerite)

Free-flowering perennials with elegantly cut foliage and large daisy-like flowers. Succeeds in poor soil but needs full sun.

7110 **Kelwayi.** 2 ft. Daisy-like lemon-yellow blossoms, produced all summer. Excellent for cutting. Pkt., 10c. **Plants,** 3 for 85c; doz., $2.50.

7111 —**Alba.** Hardy white Marguerite. 3 ft. Pkt., 15c.

7113 ×**Montana.** 9 in. Silvery tufted foliage with white flowers. April to July. **Seeds,** pkt., 15c.

7115 **Tinctoria.** 2-3 ft. Bright yellow shading to white. June-Oct. **Seeds,** pkt., 10c.

**AQUILEGIA—See colored section.**

ANTHEMIS Tinctoria

## ARTEMISIA

**Lactiflora.** 4 to 4½ ft. Sept.-Oct. A great acquisition to herbaceous borders or wild garden, producing elegant spikes of white flowers on stout stems; the whole plant has the appearance of an ornamental flowering shrub. Graceful for bouquets, etc. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Silver King.** 3 ft. Is comparatively new in gardens. Its striking gray stems and leaves and rapid branching habit stamp it as unique among foliage plants. The flowers are insignificant, but it makes up for this lack by its slender ghost-like appearance. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00

**Stelleriana (Old Woman).** 1½ ft. An old fashioned plant with deeply cut grey foliage. Leaves have aromatic odor when crushed. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## ASTER (Michaelmas Daisy)

Now fill a most important place in all hardy flower gardens, lighting up the borders and shrubberies with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce. See illustration on colored pages.

7226 ×**Alpinus Goliath.** 6 to 10 inches high and bears large showy bluish-purple flowers with yellow center in May and June. **Seeds,** pkt., 20c. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

7227 ×— **Nixe.** Light blue, star-shaped, 12 in. **Seeds,** pkt., 15c.

7227A ×—**Mixed.** 5 to 10 inches high. Large lavender blue and white flowers May-June. Pkt., 25c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7224 **Amellus Hybridus.** 2½ ft. New named varieties finest mixed. **Seeds,** pkt., 25c.

× Rock Plants

ASTER Climax

ASTER—Continued

7228 ×**Subcoeruleus.** 15 inches. Forms a dense tuft of leaves from which issue many leafless stems 12 in. high, bearing in June and July azure blue daisy-like flowers 3 in. in diameter with golden centers. Last an unusually long time when cut. **Seeds,** pkt., 20c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7225 **Perennial, Large-Flowering Mixed.** Various shades of blue. **Seeds,** pkt., 25c.

**The Novi Belgii Type.** Better known as the Michaelmas Daisies.

**Abendrothe.** 3 to 5 ft. Oct. Beautiful deep rose. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Climax.** 5 ft. One of the best and showiest, with pyramidal spikes of large, light lavender-blue flowers, with gold centers, very free blooming. Oct. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Climax White.** 5 ft. October. Pure white. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Mrs. Raynor.** 3½ ft. October. A very showy variety almost crimson in color and literally covered with large semi-double blooms. Heavy foliage and full branching. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

**Elta.** 3 ft. The clear lavender flowers are borne in clusters on dark green glossy stems. Semi-double. Does not wilt after cutting. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Queen Mary.** 3 ft. Oct. A new and handsome blue variety, branching habit and good for cut flowers. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

## ARMERIA (Thrift Sea Pink)

Dwarf-growing perennials with grassy leaves and a tufted habit of growth. The flowers are borne in globular heads during May and July, and the plants are suitable for edgings to borders.

7205 ×**Alpina.** Deep rose flowers in July. Pkt., 10c.

ARTEMISIA Lactiflora

# Vaughan's Perennial Flower Seeds and Plants

ARMERIA—Continued

7210 ×**Formosa.** 24 in. Pretty rose-pink. Pkt., 10c.
7211 ×**Formosa Hybrida.** 24 in. Shades of pink. Blooms early summer. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7218 ×**Laucheana.** 6 in. June-Aug. Crimson flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100 $15.00.
7219 ×**Maritima.** 3 to 6 in. May-June. Silvery pink flowers. **Seeds,** 15c per pkt.
7217 **Ruby.** 1½ ft. Rich deep rose-colored flower heads. **Seeds,** 25c per pkt.

## ARABIS (Rock Cress)

Charming dwarf spring-flowering plants They do well in any soil, but need plenty of sun.
7195 ×**Alpina.** 6 in. Purewhite flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7197 ×**Alpina Rosea.** 6 in. Blooms May. Compact rosettes of foliage and pink flowers. New and quite rare. **Plants,** 3 for $1.50; Doz $5.00; 100, $35.00.
7196 ×**Alpina Compacta.** Compact growing type, white flower. **Seeds,** 15c per pkt.
7198 ×**Alpina Grandiflora Superba.** Large flowered white variety. Pkt., 15c.

## ARISTOLOCHIA

7200 **Sipho (Dutchman's Pipe).** 30 ft. Very large, showy foliage. One of the best climbing plants grown. Flowers shape of a Dutchman's pipe, hence its name. Rich soil is the best. Requires protection in winter. **Seeds,** pkt. (10 seeds) for 20c. For **Roots,** see Hardy Vines page 98.

## ASCLEPIAS (Butterfly Weed)

7220 **Tuberosa.** 2 ft. One of the most showy of our native perennials and producing from July until frost, compact umbels of brilliant orange flowers, with purplish stems and hairy leaves. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## ASPARAGUS

7221 **Verticillatus (Hardy Asparagus Vine).** 10 to 15 ft. Blooms freely and has abundance of red berries late in summer. Fine to cut and use in bouquets. Perfectly hardy, requiring no protection. Vines die down to ground each year. **Seeds,** 15c per pkt.

## ASPERULA

Pretty white flowered perennials with square stems, whorled leaves and four-lobed flowers, do best in shade.
7222A **Hexaphylla.** 3 ft. White flowers in a delicate misty spray and may be used with sweet peas and other cut flowers to lighten the effect. Pkt., 15c.
7222 ×**Odorata Woodruff or Waldmeister.** 6 to 8 in. An herb whose leaves are fragrant and are used in making beverages or when dried used to lay among linens. **Seeds,** 10c per pkt. Seed germinates very slowly.

## ASPHODELINE (Asphodelus)

7223 **Lutea.** 2 to 4 ft. Ornamental tufts of glaucous blue foliage, terminal spikes of attractive golden yellow flowers, unique for naturalizing. June-July. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

ARABIS (Rock Cress)

## AUBRIETIA

One of the daintiest and most delicately beautiful of all dwarf, creeping plants for carpeting beds or rockeries, forming brilliant sheets of blue, crimson or rose for many weeks. A gem for planting in crevices of rocks or wall, forming a cataract of color. Flowers in April and May.
7231 ×**Bougainvillei.** Flowers are light violet purple. **Seeds,** 25c per pkt.
7231A **Deltoidea.** Light purple. Pkt., 25c.
7232 ×**Graeca.** Light blue, dwarf floriferous. **Seeds,** 25c per pkt.
7233 ×**Leichtlinii.** Large-flowered, rosy lilac. **Seeds,** 25c per pkt.
7233A **Rosea Grandiflora.** Pkt., 25c.
7234 **Whitewell Gem.** Glowing rosy purple with slight tinge of blue. **Seeds,** 25c per pkt.
7230 ×**Large-Flowered Hybrids, Mixed.** 6 inches. A wonderfully fine strain, producing a good range of colors. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## BAPTISIA

7235 **Australis (False Indigo).** Forms a spreading bush 3 to 4 ft. high with dark bluish green leaves, cut very deeply to form three oval leaflets, and bears its Lupin-like blue flowers in dainty branching spikes in June and July. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

BOCCONIA (Plume Puppy)

## BOCCONIA

7240 **Cordata (Plume Poppy).** 5 ft. A handsome border plant, having large lobed heart-shaped leaves with silvery under surface and flower plumes of a pretty cream color. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## BELLIS PERENNIS FL. PL.

### English Daisy.

A low-growing spring-flowering semi-hardy perennial. Loves a shady place and will bloom for years if protected over the winters. Illustrated in color on page 46, where seeds are offered.
×**Best Mixed.** **Plants,** 3 for 65c; doz., $2.00; 100, $12.00.

## BIGNONIA

7237 **Radicans (Trumpet Vine).** A robust tall climber with great leathery trumpet-shaped flowers of brilliant orange-scarlet which last a long time in the summer. A very rapid and hardy grower. **Seeds,** 15c per pkt. See Hardy climbing vine page for plants.

## BOLTONIA (False Chamomile)

Bloom at the same time and resemble some of the wild Asters. The leaves are long and grayish and in these characteristics are roughly distinguished from the perennial Asters.

Because of their great height they are highly desirable in large perennial borders as the plants literally bear thousands of star-like flowers. They serve excellently as cut-flowers.
7245 **Asteroides.** July-Oct. 4-6 ft. White. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7250 **Latisquama.** 4-5 ft. July-Oct. Delicate pink. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
**Latisquama Nana.** Dwarf form. 2 ft. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

× Rock Plants

BUDDLEIA (Butterfly Bush)

## BUDDLEIA (Butterfly Bush or Summer Lilac)

A small shrub bearing exquisite tapering spikes of lilac-mauve flowers; requires same protection as roses during winter. The top usually freezes back, and new growth starts from the root, like other perennials.
7251 **Variabilis Veitchiana.** 3-8 ft. July-Sept. Mauve. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100 $15.00.

## BUPHTHALMUM

Showy, hardy, herbaceous, perennials belonging to the lavender order, with Thyme-like flowers, useful for cutting, also for mixed border.
7254 **Cordifolium (Speciosum).** 3 ft. Heart-shaped, coarsely toothed leaves, very large orange yellow flowers with brownish center. Flowers in July. **Seeds,** 15c per pkt.
7255 **Salicifolium.** 1 to 2 ft. Bears large yellow solitary flowers in June. **Seeds,** 10c per pkt.

## CALAMINTHA

7257 ×**Alpina.** 6 in. A very graceful little rock plant, spreading tufts of pretty foliage, spangled with lavender blue flowers. **Seeds,** 35c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## CALLIRHOE

7256 ×**Involucrata (Poppy Mallow).** A showy, trailing, hardy perennial bearing continuously from early summer till fall; large, bright crimson saucer-shaped flowers. Pkt., 15c

**CAMPANULA—See Color Section.**
**CANDYTUFT—See Iberis, Page 80.**
**CANTERBURY BELLS—See Campanula Medium in Color Section.**

## CARNATION

### GRENADIN 1 FT.

A valuable bedding variety with double flowers blooming first year from seed if sown early.
7385 **Triumph, Rose.** **Seeds,** 15c per pkt.
7390 **Dark Velvety Brown.** **Seeds,** 15c per pkt
7395 **Scarlet.** **Seeds,** 10c per pkt.
7400 **White.** **Seeds,** 20c per pkt.
7401 **Mixed.** **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.
7402 ×**Dwarf Red.** This is dwarfer than the one offered above and is more suitable for rock work and edging and pot culture. **Seeds,** 25c per pkt.

### VIENNA DWARF

They grow evenly about 14 inches tall, are extra double and very large-flowering. The color display is magnificent Flowering period is at least 14 days earlier than any other Carnations of that class.
7410 ×**Rose.** **Seeds,** 15c per pkt.
7415 ×**Mixed.** **Seeds,** 10c per pkt.
7420 ×**Double Mixed, Extra Choice.** Pkt., 15c

**POPULAR HARDY PERENNIALS. By T. W. Sanders. Revised by A. J. MacSelf.**

Their cultivation in beds, borders, the wild and woodland garden and by the waterside; and also their propagation. With descriptions of the most attractive, useful and easily grown genera, species and varieties. Profusely illustrated in color and half-tone. 402 pages. Cloth, $3.15.

# Vaughan's Perennial Flower Seeds and Plants

CHEIRANTHUS (Siberian Wallflower)

## CHEIRANTHUS (Siberian Wallflower)

7440 ×**Allioni.** 1 ft. A beautiful rock plant. Dazzling fiery orange flowers, on stems about a foot high. Best used as a biennial as it frequently blooms itself to death. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**For other varieties see Page 49.**

## CASSIA (American Senna)

7376 **Marylandica.** 3 to 4 ft. July-August. A bushy growing plant with large panicles of bright yellow, curiously shaped flowers in abundant auxillary clusters. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## CATANANCHE (Cupid's Dart)

Has hoary, lance-shaped leaves, and crisp chaff-like flowers resembling those of the everlastings. Belongs to the Daisy order and is an attractive plant when in flower. Flowers are useful for cutting.

7377 **Coerulea.** Pretty deep blue flower. 2 ft. Blooms in June to Sept **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100 $15.00.

7378 **Coerulea Fl. Albo.** Pure white flowers. **Seeds,** 10c per pkt.

## CENTAUREA (Hardheads, Knapweed)

The flower heads are like showy, ragged thistle blooms. They grow 2 to 3½ ft. tall and bloom during summer months.

7379 **Dealbata.** 2 ft.. Large and striking rose-pink flowers, feathery foliage. **Seeds,** 15c per pkt.

7425 **Macrocephala.** The showiest of all, great thistle-like golden yellow flowers on stiff stems. July. Pkt. 10c. **Plants,** 3 for 85c; doz., $2.50.

7430 **Montana Blue.** 2 ft. June-Sept. Numerous large deep blue flowers somewhat resembling the annual cornflower. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7431 **Montana Alba.** White. **Seeds,** 10c per pkt.

## CEPHALARIA

7433 **Alpina (Giant Scabiosa).** 5 ft, June and July. Belongs to Teasel order. Flowers yellow on terminal heads somewhat like a Scabiosa. Good for shrubby borders. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## CERASTIUM

7435 ×**Tomentosum (Snow in Summer).** 4 in. A low, creeping plant with the upper surface of the leaves light in color and woolly; it bears a profusion of pretty white flowers. June and July. **Seeds,** 15c per pkt., **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**CHINESE LANTERN PLANT—See Color Section.**

**CHIVES—See Page 23.**

## CHRYSANTHEMUM (Hardy Daisy)

Fine hardy border plants, their large daisy-like flowers being produced in great profusion. They are splendid for cut flower purposes, lasting well.

×**Arcticum (Arctic Daisy).** 2 ft. Oct. A very hardy fall flowering perennlal forming an attractive clump of glossy green foliage covered with a mass of white flowers, slightly suffused rose or lilac. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7450 **Indicum Fl. Pl. Early-Flowering Double Chinese Varieties.** A mixture with some especially fine colors. Pkt., 35c.

7451 **Indicum Early-Flowering Single Chinese.** Attractive flowers in many charming shades. Pkt., 25c.

7455 **Laciniatum, White Comet Fringed.** 2½ ft. White petals. **Seeds,** 15c per pkt.

**Leucanthemum Flore Pleno (Double White Shasta Daisy).** Flowers double pure white of medium size, excellent for cutting. 1-2 ft. June-July. Each plant produces from 30 to 50 flowers. Perfectly hardy without any protection. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

7462 **Maximum Conqueror.** This new variety has very large, pure white flowers, five inches in diameter, on long stiff stems, produced in profusion. It blooms about mid-season and is one of the best varieties for cutting. Pkt., 15c. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

7502 **Elder Daisy.** A popular variety for early cutting, flowers coming into bloom 4 or 5 weeks earlier than the Shasta Daisy Alaska. The blooms are smaller with more of them to a plant. Height, 2 ft. Pkt., 15c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7460 **Maximum King Edward VII.** 2½ ft. Very large white flowers on stout stems. Blooms all summer. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7470 **Mrs. C. Lothian Bell.** 2½ feet. Large white daisy-like flowers. **Seeds,** 15c per pkt.

**For Shasta Daisy Alaska, see Color Section.**

## CIMICIFUGA (Snake Root)

**Racemosa.** 4 to 8 ft. Tall, late-blooming. July to Aug. The large leaves are cut very deeply and the flowers, white, small, feathery and closely set, are borne on long stalks. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

## CLEMATIS

7474 **Large Flowering Hybrids.** A mixture of large flowering sorts. Seeds germinate very slowly—may take a year. **Seeds,** 25c per pkt. For plants see Climbing Vines, page 97.

7473 **Paniculata (Small-Flowering).** The flowers are pure white, deliciously fragrant and produced with the greatest freedom. It flowers in Sept. when few other vines are in bloom. Seed germinates very slowly. **Seeds,** 10c per pkt. For plants see Climbing Vines, page 97.

7475 **Recta.** 2 to 3 ft. June-July. Produces fragrant, pure white flowers in very large, showy clusters. **Seeds,** 15c per pkt. **Plants,** two year, 3 for $1.00; doz., $3.50; 100. $20.00; three year, 3 for $1.25; doz., $4.00; 100, $30.00.

DICENTRA (Bleeding Heart)

× Rock Plants

DICTAMNUS Fraxinella (Gas Plant)

## COMMELINA

7480 **Coelestis.** 10 to 18 inches. Branching habit, long pointed leaves, navy-blue flowers in clusters, tuberous rooted. **Seeds,** 25c per pkt.

**COREOPSIS (Tickseed) — See Color Section and perennial novelty pages.**

## CONVOLVULUS

7482 ×**Mauritanicus.** 6 in. Blue with white throat; very fine plant for hanging baskets or rock garden. Rapid grower and blooms all summer. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50: 100, $15.00.

## CRUCIANELLA

7499 ×**Stylosa.** 18 in. July. Tangled masses of elegant foliage, crowded heads of light red flowers. **Seeds,** 15c per pkt.

## CYPRIPEDIUM (Hardy Orchids)

Hardy Orchids for the most part are shade-loving plants and delight in a soil well drained and largely composed of leaf mold.

**Acaule (Red Lady Slipper).** The plant sends up two broad, green leaves from the base and from between them comes a stalk about a foot high bearing a single large, rose purple flower. May-June. **Plants,** 3 for 85c; doz., $2.50.

**Spectabile (Showy Lady Slipper).** The finest and most showy of all Orchids. It grows about 2 ft. high, bearing along the stalk several rather large roundish leaves and on top one or two quite large, rose-purple or nearly white flowers. June. **Plants,** 3 for $1.00; doz., $3.50.

**DELPHINIUM—See Color Section.**

## DICENTRA (Dielytra)

## (Bleeding Heart or Seal Flower)

7719 **Spectabilis.** Its long racemes of graceful heart-shaped pink flowers are always attractive. Is perfectly at home in any part of the hardy border and especially valuable for planting in the shade. Strong roots. **Seeds,** (germinate slowly), 35c per pkt. **Plants,** 3 for $1.25; doz., $4.00; 100, $30.00.

×**Exima.** Plumy Bleeding Heart. Dwarf,12 inches. Racemes of pendant pink flowers borne above fine cut feathery foliage. Cannot be supplied after April 20th. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

## DIANTHUS

7575 **Allwoodii Mixed.** It makes an ideal pot plant. The flowers are about 75 per cent double and appear in all colors except yellow. The single flowers are quite as handsome as the double and have the advantage of making large clusters. It is exceptionally hardy, commencing to flower in early spring and continuing through summer and fall. **Seeds,** pkt. (25 seeds), 50c. **Plants.** 3 for $1.00; doz., $3.50; 100, $20.00.

7587 **Best Rock Garden Varieties, Mixed.** Rock gardens now so popular need these low growing dianthus to brighten spots and fill in crevices with their attractive flowers. Pkt., 25c.

# Vaughan's Perennial Flower Seeds and Plants

DIANTHUS Plumarius (Clove Pink)

## DIANTHUS (Hardy Garden Pink)

These very desirable sweet-scented, low-growing, early-blooming and free-flowering Hardy Garden Pinks are unequaled for rock gardens; for the old-fashioned garden and for the borders of beds and drives. They should be planted where they receive full sunlight and in good soil.

7580 ×**Caesius (Cliff Pink).** 1 ft. Flowers delicate rose pink, fragrant. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7630 ×**Atro-coccineous (Everblooming Sweet William) Cruentus.** Beautiful outdoor pink of intense crimson color; semi to full double flowers, borne on stout stems 15 to 18 inches high. Blooms continuously all summer and is useful for cutting. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50.

7582 ×**Deltoides (Maiden Pink).** 8 in. Delicate pink blossom carried above fine, feathery foliage. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $20.00.

7581 ×**Dentosus Hybridus (Amoor Pink).** A red Siberian variety flowering in July. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $20.00.

7583 ×**Graniticus.** 4 in. Low growing, forming dense carpet covered with crimson flowers in May and June. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7586 ×**Neglectus (Glacier Pink).** Flowers cherry-carmine. 6 in. May-July. A wonderful rock plant. **Seeds,** per pkt., 50 seeds, 25c. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

**Napoleon.** A new and improved variety of everblooming habit. Has large, double, deep red blooms, very fragrant and giving an abundance of bloom all summer. Makes a fine border or rock plant. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

**Plumarius** are the old-fashioned, fragrant Garden Pinks. Fine for perennial border or rockwork.

7591 ×**Albus Plenus.** Double white. Pkt., 25c.

7590 ×**Cyclops (Clove Pink).** An exquisite mixture of colors; fragrant. 1 ft. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7595 ×**Cyclops, Red Hybrids.** **Seeds,** 15c per pkt.

7597 ×**Cyclops Double Mixed.** **Seeds,** 25c per pkt.

7600 ×**Diadematus.** 12 in. White, pink and crimson. **Seeds,** 10c per pkt.

7611 ×**Mrs. Sinkins.** Large double white. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50.

7596 ×**Peacock.** Fringed white flowers with rings. **Seeds,** 15c per pkt.

7605 ×**Nanus Fl. Pl.** Double dwarf mixed. Pkt., 15c. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7610 ×**Semperflorens.** 15 in. Single and double, flowers all spring and summer. Mixed colors. **Seeds,** 15c per pkt.

7615 ×**Single Mixed.** Delicately fringed flowers. **Seeds,** 10c per pkt.

7620 ×**Double Mixed.** Fine for cutting. Pkt., 10c.

7625 ×**Vaughan's Special Mixture.** A grand selection of clove pinks of the above Plumarius type and others. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## DICTAMNUS (Gas Plant)

The glossy, leathery leaves are dark green and retain their deep color until late in Fall. The flowers are borne on spikes 2 to 3 feet high. Both the foliage and flowers are fragrant and when the parts are crushed in the hand, they have the fragrance of a lemon. The whole plant gives off a strong, volatile oil which will give a flash of light if a lighted match is held under the cluster of seed capsules on a sultry Summer evening. The seed of these is very slow to germinate and plants when once established, should be let alone.

7720 **Fraxinella.** 3 ft. June-July. Large spikes of deep pink, purple-veined flowers. **Seeds,** 15c per pkt. **Plants,** 3 for $1.50; doz., $5.00; 100, $35.00.

7725 —**Albus.** 3 ft. June-July. Spikes of attractive pure white sweet-scented flowers. Pkt., 15c. **Plants,** 3 for $1.50; doz., $5.00; 100, $35.00.

**DIGITALIS (Foxglove)—See Color Section.**

## DODECATHEON (American Cowslip)
## (Shooting Star)

Very pretty dwarf Primulaceous plant, ovate or oblong leaves with drooping Cyclamen-like flowers borne in umbels. They require a moist, cool and shady position.

7776 ×**Meadia.** 1 ft. April-June. Flowers lilac. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

## DORONICUM (Leopard's Bane)

Showy spring flowering perennials belonging to the daisy order. Their yellow Marguerite flowers are invaluable for cutting. They have bright green, roughish, heart-shaped leaves and hairy flower stems.

7777 **Caucasicum.** 1½ ft. A showy border plant with large heads of yellow flowers. Spring. **Seeds,** 50c per pkt.

7778 **Plantagineum Excelsum.** 3 ft. Large yellow flowers 4 in. dameter April to Oct. Pkt., 20 seeds 50c.

## ECHINACEA (Coneflower)

Stout perennials for the border or wild garden. Flowers in July-Aug., and the blooms make good cut flowers.

7780 **Hybrida.** 4 ft. Flowers of various shapes, produced in a wide range of colors. Pkt., 15c.

7785 **Purpurea (Purple Coneflower).** 3-4 ft. A very handsome border plant bearing large heads of rosy purple flowers and dark central disc. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $20.00.

7786 **Purpurea Grandiflora.** **Seeds,** 15c per pkt.

## ECHINOPS (Globe Thistle)

The flower heads are round like a ball and are entirely covered with needle-like thistles. Are excellent for cutting, can be dried and will retain attractive for months. The leaves are large, deeply cut and very prickly.

7788 **Ritro.** 3-4 ft. Steel-blue flower heads. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50.

7790 **Sphaerocephalus.** 4 ft. Grayish white flowers on stout stems. **Seeds,** 10c per pkt.

## EDELWEISS

7791 ×**Leontopodium Alpinum.** 4-12 in. June-July. The flowers are of downy texture, pure silver-white and star-shaped. Requires a dry, sunny location with good drainage. In other words, poor soil, stony, with but little or no humus, and especially deficient in nitrogen. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50.

EDELWEISS

ECHINACEA (Rudbeckia) Cone Flower

## ERIGERON (Flea Bane)

Valuable summer flowering plants with elegant single aster-like flowers, much prized for cutting.

**Amos Perry.** (New). 2 ft. Fine compact plant with large double blue daisy-like flowers. A fine cut flower, blooming all summer. Needs covering over winter. **Plants,** 3 for $1.50; doz., $5.00.

7796 **Speciosus Hybridus Grandiflorus.** Large flowers rich purple. 24 in. June. **Seeds,** 20c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7797 **Elatior.** Rosy, 24 in. May-June. Pkt., 20c.

## ERINUS

7798 ×**Alpinus.** Pretty rosettes of foliage and racemes of rosy purple flowers. A first rate rock plant and also invaluable for establishing on old walls or between steps. 4 in. May-June. **Seeds,** 35c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## ERYNGIUM (Sea Holly)

Handsome ornamental plants for flower and shrubbery borders. Flowers July to Sept. The leaves are prickly, flower heads are surrounded by spreading prickly floral bracts and the flower head itself is a small Teazel. The branches can be dried and the flowers used in winter bouquets.

7792 **Alpinum.** 2-3 ft. Shining green leaves, large light blue flowers. **Seeds,** 10c per pkt.

7793 **Amethystinum.** 1½-3 ft. Fine foliage with bluish-green shoots terminating in numerous amethyst-blue thistle-like flowers. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz. $2.50; 100, $15.00.

7795 **Planum.** 2-3 ft. Small steel-blue globular flowers; graceful decorative plant. Pkt., 10c.

## ERYSIMUM

7794 ×**Pulchellum (Fairy Wallflower).** A new dwarf species, forming close mats of dark green later eclipsed with yellow bloom. Sandy soil. **Seeds,** 15c per pkt.

## EUPATORIUM (Thorough Wort)

Strong growing border plants, suitable for cutting; they bear minute flowers in dense heads; ordinary garden soil suits them. Eupatorium Ageratoides (White Snakeroot) is a poisonous weed, causes "Milk Sickness" and we dropped it from our list.

7800 **Fraseri.** 2 ft. Pure white ageratum-like flowers; does well in shade. **Seeds,** 10c per pkt.

7805 **Purpureum (Joe Pye Weed).** 6-7 ft. July-Sept. Pink flower, purple stalked. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7804 **Coelestinum (Mist Flower or Hardy Ageratum).** 2 ft. Sept.-Oct. Light blue. An excellent cut flower. **Seeds,** pkt., 25c. **Plants,** 3 for 85c; doz., $2.50; 100 $15.00

## FILIPENDULA HEXAPETALA
## (Spiraea Filipendula)

**Flore Pleno (Dropwort).** June-July. Double white. Good for front row in hardy border. Graceful plants, both in flower and foliage. 1-2 ft. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

# Vaughan's Perennial Flower Seeds and Plants

EUPATORIUM Fraseri

## FERNS

Hardy Ferns are especially suited to partial and dense shade and will flourish where grass will not grow. They make a grand effect in shady spots in any garden. Their culture is easy. If possible, add leaf mold or well decayed peat, loam and a fair proportion of sand and drainage. (Ready April 1.)

**Adiantum Pedatum (Maidenhair Fern).** 1 ft The best dwarf fern.

**Asplenium Filix-Foemina (Lady Fern).** 2 to 3 ft. Fine delicate fronds, very hardy, will grow in the sun if soil is kept moist.

**Aspidium Spinuiosum (Spinulose Wood Fern).** 1½ to 2 ft. A strong grower and should be included in every Fern collection.

**Onoclea Struthiopteris (Ostrich Fern).** 3 to 4 ft. One of the most stately and best for cultivation; handsome dark green fronds.

**Osmunda Claytoniana.** 2-3 ft. A good fern for the shady corner. Fronds 7 to 12 in. wide. **Price of Plants** of any above ferns, 3 for $1.00; doz., $3.50; 100, $20.00.

**FORGET-ME-NOT—See Myosotis in perennial and annual sections.**

**FUNKIA (Day Lily). See Hosta on page 79.**

**GAILLARDIA (Blanket Flower)—See page 71.**

## GALEGA (Goat's Rue)

Herbaceous perennials belonging to the Pea order. They have pretty, pinnate foliage, and Pea-shaped flowers borne in racemes.

7839 **Hartlandi.** 4½ ft. June-Aug. Long racemes of beautiful lilac, pea-shaped blossoms. Pkt., 25c.

## GENTIANA (Gentian)

Beautiful hardy border and rock plants, with shades of blue surpassing those found in any other family of plants. Grow in moist shady situation in sandy loam. Rather difficult to establish; do not disturb after once started and do not use lime in soil. Seed slow to germinate.

**Andrewsii.** One of the most fascinating native plants. The flowers which are tightly closed are borne at the top of a stem from 6 to 8 in. long and are an intense deep blue. Blooms best in moist place. June-October. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

7840 ×**Acaulis.** 4 in. Large bell-shaped deep blue flowers; spring blooming. **Seeds,** 20c per pkt.

7845 **Lutea (Yellow Gentian).** 4 ft. July to September. Whorls of giant yellow flowers. **Seeds,** 10c per pkt.

## GERBERA (Transvaal Daisy)

**Jamesoni Hybrids.** 2 ft. A valuable acquisition for garden enthusiasts and requires some care to grow to best advantage. Large daisy-like blooms on long stems in shades of yellow and red, attracting attention everywhere. Needs protection over winter. Plants, 75c each. For seeds see colored pages.

## GLOBULARIA (Globe Daisy)

Shrubby plants for the hardy garden or rockery, producing fluffy balls of blue flowers during the summer. They all require light soil in a warm, sunny position.

7857 ×**Trichosantha.** Dark blue. 12 in. Pkt., 20c.

## GEUM

Geums belong to the Rose family. The species described are showy, free-flowering kinds producing a wealth of attractive flowers which are much prized for cutting. They are of a tufted habit of growth with pinnate leaves. Excellent for border culture. To avoid wilting after cutting put stems in warm water.

7851 ×**Boresii.** Producing an abundance of neat branching stems, covered with large well-formed flowers, brilliant shade of scarlet. June till late autumn. Pkt., 35c.

7850 **Coccineum Atrosanguineum Plenum.** 1½ ft. May-July. Flowers are double, bright scarlet. **Seeds,** 15c per pkt.

7852 **Lady Stratheden (Golden Ball).** Flowers loosely double; a delightful shade of golden yellow. **Seeds,** 35c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7855 ×**Mrs. Bradshaw.** The double orange-scarlet flowers are very large and full. 2 ft. June-Sept. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

GYPSOPHILA Paniculata Bristol Fairy

## GRASSES

The ornamental grasses can be used with telling effect either as individual specimens in the border or on the lawn. Large beds or borders planted entirely to the different varieties are attractive or when planted in clumps on the margin of ponds.

7858A **Erianthus Ravennae.** 5 to 7 ft. Plume Grass. Producing from 30 to 50 flower-spikes. Closely resembles the Pampas Grass. Pkt., 15c.

**Eulalia Japonica Variegata.** 4 to 6 ft. A tall graceful variety. Its long, narrow leaf-blades are striped green-white and often pink and yellow. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Eulalia Gracillima Univittata.** 5 to 6 ft. Graceful hardy variety, narrow bright green foliage with a silvery mid rib. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Festuca Glauca.** 1 ft. A pretty dwarf grass with tufts of fine bluish green foliage. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7856 **Gymnothrix Latifolia. (Pennisetum Latifolium.)** 3 to 4 feet, bearing several nodding plumes. 1 to 2 feet long. **Seeds,** 15c per pkt.

7856A **Gynerium Argenteum.** Pampas Grass. The plumes are silvery white. Perfect specimens can be obtained only in light, rich soil with moderate moisture. Not hardy in Middle West. Pkt., 15c.

7856B **Stipa Pennata.** Feather Grass. A well-known variety which has been grown in gardens. **Seeds,** 25c per pkt.

7859 **Uniola Latifolia (Spike Grass).** Leaves are broad and flat, often one inch wide, spikelets large and thin and when full grown droop on slender stems Hardy perennial. **Seeds,** 15c per pkt

× **Rock Plants**

**GOLDEN ROD—See Solidago on Page 84.**

## GUNNERA (Prickly Rhubarb)

7858 **Manicata.** 3 to 6 feet. A noble plant with huge leaves from 4 to 5 feet in diameter; requires a damp situation. A fine subject for large lawns, the bog garden, or beside pools. **Seeds,** 35c per pkt.

## GYPSOPHILA

Graceful border and rock plants with small flowers on light stems. Greatly prized for cutting. Do not disturb after once established.

7860 **Paniculata Flore Pleno.** A great improvement on the single-flowered type and more lasting, the flowers forming miniature balls of white petals. 2-3 ft. July-August. Not quite fixed, but about 25 per cent come true. The plant is difficult to propagate by division, and seedlings prove much more vigorous. **Seeds,** 25c per pkt.

7865 **Paniculata (Baby's Breath).** 2-3 ft. July-August. Small flowers on branched stems, so thick as to give the plant a white lace-like effect. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $25.00.

**Panaculata Bristol Fairy.** New. Early double pure white large flowering perennial Baby's Breath. It is a new form, blooming much earlier than paniculata fl. pl and prod cing a second crop of spikes after the first have been cut. **Plants,** 65c each; 3 for $1.50; doz., $5.00.

7861 **Manginii.** Tall perennial variety with rosy-white flowers. Pkt., 15c.

7862 ×**Repens.** Dwarf white Baby's Breath. Splendid in rockery. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## HEDYSARUM

7866 **Coronarium, Red.** French Honeysuckle. Attractive border plants with showy racemes of deep red, fragrant flowers. 2-4 ft. Summer. Need sun and light, well-drained soil. **Seeds,** 10c per pkt.

## HELENIUM (Sneezewort)

The Heleniums are tall plants which are closely related to the Sunflower. The blooming period is from June to the end of September The flowers are flat and borne in large heads of clusters.

**Autumnale Rubrum.** 3 to 4 ft. Aug-Sept. Oxblood-red changing to terra cotta. **Plants,** 3 for $1.00; doz., $3.50.

7875 **Autumnale Superbum.** 4-5 ft. Large clear light yellow, flowers in Sept. **Seeds,** 10c per pkt.

7885 **Hoopesii.** 1-3 ft. June. Rich orange-yellow with slightly drooping rays. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7890 **Riverton Gem.** 2 to 4 ft. Covered from August to October with brilliant old gold and splashes of darker shades, changing later to wall-flower-red. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7895 **Riverton Beauty.** Rich lemon-yellow with a large purplish cone. 4-5 ft. Aug.-Sept. **Seeds,** 25c per pkt.

HEUCHERA Sanguinea

# Vaughan's Perennial Flower Seeds and Plants

HELIANTHUS Multiflorus Plenus Fl. Pl.

## HELIANTHEMUM

7906 ×**Mutabile (Rock Rose).** Low-growing evergreen plants forming large clumps, completely covered with bloom during July and Aug. Pale rose changing to lilac, then to white. 8-12 in. Excellent for rockeries. Mixed colors. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## HELIANTHUS (Hardy Sunflower)

Hardy, perennial sunflowers flourish splendidly in any garden, city or country. They are a beautiful race of sturdy, showy plants, invaluable for cutting, as they last so long in water.

7899 **Angustifolius (Autumn Glory).** 5 to 7 ft. The great massing branches are a sheet of solid bloom of the clearest and richest golden yellow. Flowers are like great daisies flecked with gold. Blooms very late in season after frost has killed everything else. **Seeds,** 15c per pkt.

7900 **Maximilianii.** Small and graceful flowers of deep yellow on stems 2 to 4 ft. long, blooming from August to October. **Seeds,** 25c per pkt.

7905 **Perennial Varieties, Mixed.** Pkt., 15c.

**Mollis.** 5 ft. Aug.-Sept. Thick velvety foliage of silvery tinge, lemon-yellow flowers. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Multiflorus Plenus Fl. Pl.** 3 to 4 ft. Aug.-Sept. Large double golden yellow flowers resembling a dahlia or a large chrysanthemum. Good for massing, for background effect and for cut flowers. Also valuable because it produces a wealth of large blooms when other perennials are not flowering. **Plants,** 3 for $1.50; doz., $5.00; 100, $30.00.

## HELIOPSIS (Orange Sunflower)

A very brilliant border plant, resembling a double sunflower; flowers are double yellow; produced on long wiry stems; an excellent cut flower.

7910 **Pitcheriana.** 3 to 4 ft. high. The flowers are of a beautiful deep golden yellow color about 2 inches in diameter; of very thick texture and blooms all summer. **Seeds,** 10c per pkt.

**Scabra Gratissima.** 2½ ft. July-Aug. Ochre yellow, almost double flowers, very fine for cutting. **Plants,** 3 for $1.50; doz., $5.00; 100, $35.00. Two-year clumps, each, 75c.

7915 **Scabra Zinniaeflora Plena.** 3 ft. A compact, bushy plant with double yellow zinnia-like flowers in July and August. Pkt., 15c.

7916 **Soleil d'Or (Golden Sun).** Free flowering, very useful in the garden for display or cutting, golden yellow flowers. **Seeds,** 20c per pkt.

## HEMEROCALLIS (Yellow Day Lily)

The Day Lilies are magnificent hardy plants and are undoubtedly among the finest plants for ordinary garden culture. The flowers are produced in spikes of from six to a dozen blooms, opening in succession, and many have a delightful fragrance.

**Aureole.** 3 ft. May-July. Orange shade with crimson.

**Dr. Regal.** Rich orange-yellow. May and June.

**Flava.** May-June. Yellow. 3 ft.

**Florham.** 3 ft. June-July. Like Flava but blooms a month later.

**Fulva Kwanso Fl. Pl.** June-July. Coppery red double. 3 ft.

**Sovereign.** June-July. Chrome yellow. 3 ft.

**Thunbergi.** 3 ft. June-July. Fragrant large-golden yellow blooms.

**Plants,** any of above Hemerocallis, 3 for 65c; doz., $2.00; 100, $12.00.

## HELLEBORUS

7920 **Niger (Christmas Rose).** 1 ft. White flower appearing very late in season. Plant in rich loam and coarse sand with top-dressing of rotten manure. When once established do not disturb; seeds germinate very slowly. **Seeds,** 25c per pkt.

## HEUCHERA (Coralbells)

Belong to Saxifrage order. They have roundish or heart-shaped leaves, a thick woody root stock and bear their dainty flowers in graceful pannicles or racemes.

7941 ×**Brizoides Gracillima.** May-June. Bright, flesh-pink. 2 ft. Pkt., 25c. **Plants,** 3 for $1.00; doz., $3.50. Two-year clumps, 3 for $1.25; doz., $4.00; 100, $30.00.

7940 **Sanguinea.** 2 ft. July-Aug. Long stems of large crimson-scarlet flowers. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

7942 **Sanguinea Maxima.** Large flowered, deep crimson. **Seeds,** 35c per pkt.

7943 **Sanguinea Hybrida Grandiflora.** Large flowered hybrids, very fine. **Seeds,** 35c per pkt.

**New Hybrids.** All shades of red and coral pink. This is a mixture which is highly spoken of because of its fine coloring, large flowers and free flowering of the plants. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

MALLOW MARVELS (Hibiscus)

## HESPERIS MATRONALIS

## (Sweet Rocket—Evening Scented Stock)

Belongs to the Wall flower family. Deliciously sweet-scented flowers for garden or cutting. 2-3 ft. June-Aug. Sow in Spring in boxes and transplant in April or May—or sow in open ground in April for later bloom.

7930 **Purpurea.** Purple. **Seeds,** ½ oz., 30c; pkt. 10c

7935 **Alba.** White. **Seeds,** 10c per pkt.

7936 **Mixed.** Pkt., 10c.

## HIBISCUS (Rose Mallow) 3 to 5 Feet

Noble, shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. Aug.-Sept.

7945 **Crimson Eye.** Creamy white flowers, large crimson center. **Seeds,** 10c per pkt.

7950 **Golden Bowl.** Deep cream, with a velvety maroon center. **Seeds,** 10c per pkt.

7960 **Mixed Mallow Marvels. Seeds,** 10c per pkt. **Plants,** 3 for 65c; doz., $2.00; 100, $12.00.

7965 **Mallow Marvels, Red. Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

7966 **Mallow Marvels, Pink. Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Mallow Marvels, White. Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## HIERACIUM (Hawkweed)

7960 **Villosum.** 1 ft. Yellow. Flowers in July. Plant in light, rich loam. The silvery foliage and showy flowers of this species makes it very desirable. Pkt., 25c.

**HOLLYHOCK—See Color Section and perennial novelties.**

× Rock Plants

HOSTA (Funkia or Day Lily)

## HOSTA (Funkia or Day Lily)

Very attractive plants with broad overlapping leaves of various markings; very ornamental, surmounted by dainty lily-like flowers in terminal racemes. 1½-2 ft. July-Aug. Effective in front of shrubbery under trees, or any shady position

**Cordata Aurea Variegata.** Choice new variety. August. Lavender-blue, 1 ft. Large golden variegated leaves. **Plants,** 3 for $1.25; doz., $4.00.

**Coerulea (Lanceolata).** Dark blue. 1 ft. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Subcordata Grandiflora.** Flowers white, large green leaves. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00

**Variegata.** Good edging plant. Leaves white and green. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## HYACINTHUS

8060 **Candicans (Cape Hyacinth).** A snow-white summer flowering Hyacinth, 3 to 5 ft. tall, surmounted with from 20 to 30 pure white bell-shaped flowers. **Seeds,** 15c per pkt.

## HYPERICUM (St. John's Wort)

**Moserianum.** 1½ ft. A splendid shrub-like plant of pendulous spreading habit. The flowers are golden yellow over 2 in. in diameter, like immense single buttercups. A most desirable plant for sunny situations. Blooms all summer. **Plants,** 3 for $1.00. doz., $3.50; 100, $25.00.

LOBELIA Cardinalis

# Vaughan's Perennial Flower Seeds and Plants

LINARIA Dalmatica Macedonica

## IBERIS (Perennial Candytuft)

Dwarf evergreen plants, 6 to 10 in. Covered with blooms in spring and early summer. Excellent for rockeries or borders where bright dwarf masses are wanted.

8075 ×**Gibraltarica.** Pinkish-white. Pkt., 10c.

8080 ×**Sempervirens.** Flowers form a sheet of whiteness. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8079—**Snowflake.** Large, pure white flowers. **Seeds,** 25c per pkt.

8081 **Tenoreana.** 9 in. White flowers changing to pale purple. **Seeds,** 10c per pkt.

## INCARVILLEA

8085 **Delavayi (Hardy Gloxiania).** 2 ft. June. Splendid gloxinia-like flower borne in large bright rose umbels. Likes a sunny situation. Seed germinates very slowly. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

8086 **Grandiflora.** 1 ft. A Chinese species. Is another showy kind, with carmine flowers and bold, handsome fern-like foliage. Flowers in May and June. **Seeds,** 25c per pkt.

## INULA

8088 ×**Ensifolia.** 9 in. July-Sept. Vigorous plant and a continuous bloomer with large yellow aster-like flowers and rather coarse foliage. Pkt., 25c.

LATHYRUS Latifolius (Perennial Pea)

## IRIS

8090 **Kaempferi (Japanese Iris).** The seeds we offer have been saved from our own unrivaled collection, and should produce only varieties of the highest merit. Seed of slow germination. **Seeds,** 10c per pkt.

8091 **Large flowering Hybrids (German).** This seed comes from the trial grounds and workshop of a specialist who has introduced many new and beautiful varieties and this seed should produce some attractive sorts. Iris seedlings usually bloom second year. **Seeds,** 50c per pkt.

## ISATIS

8094 **Glauca.** 3 ft. Graceful plant with glaucous green leaves with a white mid-rib. Belongs to Wallflower family, yellow flowers borne in terminal panicles in July and August. Pkt., 10c.

## LATHYRUS LATIFOLIUS (Hardy Pea)

Very decorative climbing vines of the Pea family, for growing on fences, trellis, etc., as floral screens and for cutting. Blooms all summer.

8100 **Pink Beauty.** Pale pink variety.
8105 **Rubra.** Bright rosy crimson.
8110 **White Pearl.** Large-flowering white.
8115 **Mixed.** The above colors.

Each of the above. Pkt. 10c. **Plants,** Pink, Red or Mixed, 3 for 85c; doz., $2.50; 100, $15.00.

**KNIPHOFIA—See Tritoma.**

LUNARIA (Honesty or Peter's Penny)

## LAVANDULA

Delightfully fragrant flowers, much used when dry on account of their sweet odor.

8116 **Vera (True Lavender).** 2 ft. June-Aug. Blue. **Seeds,** 10c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

## LIATRIS (Kansas Gay Feather)

It grows in long spikes 4 to 5 feet tall and densely covered with slender grass-like leaves of a light green. The small flowers are light rosy-purple; a peculiar habit of the Liatris is that the succession of bloom is from the top downward rather than from the lowest blooms up to the highest as in all other spike flowers.

8123 **Pycnostachya.** One of the choicest and boldest species. Flowers purple in dense spikes, which bloom a long time. Foliage thick and grass-like; excellent for masses in the border. 4 to 5 ft. July-Aug. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8118 **Spicata (Button Snakeroot).** Western and Southern States. Purple flowers on spike 6 to 15 in. long. 2 to 3 ft. July-Sept. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8119 **Scariosa.** Rare North American species. Crowded spikes of rosy purple flowers. Pkt., 15c.

## LINARIA (Toad Flax)

Showy free-flowering plants of a trailing habit. Good for borders, window boxes or rockeries.

8122 ×**Alpina.** 6 in. Blue flowers in July and Aug. **Seeds,** 25c pkt.

8120 ×**Cymbalaria (Kenilworth Ivy).** 3 in. Dainty lilac and orange; flowers throughout summer; trailing habit. **Seeds,** 10c per pkt.

8121 ×**Dalmatica Macedonica.** The dainty flowers resemble those of snapdragon, bright yellow with orange lip. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## LINUM (Flax)

Flax is a lovely, airy plant. The general height is from 12 to 18 inches. The foliage and flowers are very delicate and graceful and present the appearance of a small feathery bush. The flowers are borne in great numbers all during the blooming season which lasts from May through Sept. They have the capricious habit of blooming every other day.

8123A ×**Alpinum.** 6 in. Blue. July. Pkt., 25c.

8124 **Narbonnense.** Forms a spreading clump of attractive foliage with a profusion of azure-blue flowers with white eye. **Seeds,** 25c per pkt.

8125 **Perenne Blue.** May-Aug. 2 ft. Has dainty sky-blue flowers on graceful arching stems. Blooms short lived but are produced continuously in such profusion it creates the effect of blue sheen over the plant. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8130 —**Album.** Milk-white flowers. Pkt., 10c.

8135 —**Mixed.** **Seeds,** 10c per pkt.

8140 **Flavum.** 1-2 ft. Produces masses of golden yellow flowers from June until Sept. Pkt., 20c.

## LOBELIA

Handsome border plants, thriving in any ordinary garden soil, but preferring a moist, deep loam. Season Aug. till late Sept.

8145 **Cardinalis (Cardinal Flower).** 2 ft. July-Oct. Tufts of bronzy green foliage from which arise spikes of brilliant fiery scarlet flowers. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8146 **Syphilitica. (Great Blue Lobelia.)** 3 ft. Aug.-Sept. A native wild flower. Fine spikes of blue flowers streaked in white. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50.

## LUNARIA

8150 **Annua (Biennis) (Honesty or St. Peter's Penny).** Flowers purple, followed by silvery seed pods, prized for winter decoration. Annual but readily self-sows. **Seeds,** 10c per pkt.

8155 **Alba.** Pure white. **Seeds,** 10c per pkt.

## LYSIMACHIA

×**Nummularia (Moneywort).** Creeping Jenny, an exceptionally good, nearly evergreen, ground cover for the rock garden. In the spring it is covered with bright yellow flowers which continue at intervals all summer. The foliage is a bright, shiny, light green that is attractive the entire year. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Vulgaris. (Golden Loosestrife).** August. 2-3 ft. Sprays of golden flowers, makes a good border or background plant. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

LUPINUS Polyphyllus (Perennial)

× Rock Plants

# Vaughan's Perennial Flower Seeds and Plants

## LUPINUS (Polyphyllus)

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom. Do not disturb plants after they are once established. June-Sept.

8167 **Arms of Enkhuizen.** Dainty white flowers suffused with creamy pink. **Seeds,** 25c per pkt.

8170 **Albus.** Large, pure white spikes. 2-3 ft. **Seeds,** 10c per pkt.

8165 **Blue.** 3 ft. Stately spikes of blue, Pkt., 10c.

8176 **Lavender Queen.** Lavender tinted pink blossoms. **Seeds,** 25c per pkt.

8177 **Princess Juliana.** Lovely pink blooms. **Seeds,** 25c per pkt.

8175 **Roseus.** 4 ft. Light and dark rose flowers on long stems. **Seeds,** 15c per pkt.

8178 **Sunshine.** A beautiful variety producing bold spikes of clear yellow. **Seeds,** 25c per pkt.

8174 **Downer's Hybrids.** Perpetual flowering new hybrids. **Seeds,** 25c per pkt.

8173 **Harkness' Regal Mixture.** A mixture of charming new colors, in which rose, buff, flesh and salmon shades predominate. Pkt., 25c.

8180 **Mixed.** Splendid value. Pkt., 10c. **Plants,** any of above Lupinus strong 1 year roots 3 for 85c; doz., $2.50; 100, $15.00.

## LYCHNIS

A fine old-fashioned flower, bearing large heads of brilliantly colored flowers, that liven up the border during Summer and early Autumn.

8200 ×**Alpina.** 4 in. April. Close tufts olive green foliage. Clusters of rose-colored flowers. Pkt., 20c.

8189 **Arkwrightii.** A cross between Chalcedonica and Haageana. 2 to 3 ft. May. An abundance of large flowers in brilliant colors, varying from orange scarlet to soft salmon pink **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8190 **Chalcedonica (Jerusalem Cross).** 3 ft. June-Aug. Burning Star. Flowers which are of the most fiery red imaginable appear in clusters, each individual blossom forming a maltese cross. Will bloom from seed the first year. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8195 **Chalcedonica Alba.** White. Pkt., 10c.

8210 ×**Haageana Hybrids.** 1 ft. June-July. Mixed. Ranging from nearly white to bright scarlet. Pkt., 10c.

8215 ×**Viscaria Splendens.** 1½ ft. Makes large clumps of almost evergreen foliage. Its flowers are bright rose; useful for cut flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00

## LYTHRUM

8220 **Roseum Superbum.** 4 ft. July-Aug. A native perennial, good for massing. Flowers rosy lilac produced on long slender spikes. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## MALVA

Free-flowering and showy perennial (Mallows) suitable for sunny borders or the wild garden. The flowers are large, attractive, and borne in terminal clusters, and the leaves are lobed or cut.

8221 **Moschata (Musk Mallow).** 2 ft. Satiny pink flowers. June to Sept. **Seeds,** 15c per pkt.

LYCHNIS Chalcedonica

## MATRICARIA (Feverfew)

3205 **Capensis Fl. Pl.** The true double flowered hardy white Feverfew. Marguerite-like foliage with clusters of double pompon-flowers from June to October. One of the best all-season cut-flowers. For seeds see page 56. Pkt., 10c. **Plants,** 3 for 65c; doz., $2.00; 100, $12.00.

### Perennial Seed Mixtures

Our Surprise Garden of Annuals has been a great favorite for several years with our customers. Many have asked for a similar mixture of perennial seeds, so we have made the following mixtures and offer them for the first time.

8600 **Dwarf Sorts Mixed.** From 6 to 15 in.

8601 **Medium Sorts Mixed.** From 18 to 36 in.

8602 **Tall Sorts Mixed.** 3 ft. and upwards.

Each of the above, pkt. 25c; three pkts., 65c.

MERTENSIA (Blue Bells)

## MERTENSIA (Blue Bells)

**Virginica.** May-June. Light blue. 18-in. Soft, light green stems and foliage. The flowers are reddish purple when in bud but, as the flowers open, they change to a lovely gentian-blue. They hang in drooping, nodding, graceful clusters and individual flowers are funnel-shaped. Blooms early, and cannot be shipped after April 15th. Moist soil in shady location. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

MICHAELMAS DAISY—See Perennial Aster.

## MINT (Mentha)

Old-fashioned hardy, useful plant. 3 in. pots. **Plants,** 3 for 65c; doz., $2.00; 100, $10.00.

## MONARDA (Bergamot or Bee Balm)

Fine for naturalizing in woods and shrubbery; bearing large whorls of flowers surrounded by colored bracts, and fragrant foliage; good for bees. Sandy loam and sunny position. Fine for masses.

**Didyma.** June-Sept. Brilliant scarlet. 3 ft. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8226 **Hybrida.** Mixed. 15c per pkt.

**Fistulosa.** 3 ft. July. Purple flowers. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Fistulosa Alba.** White form of above. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Rock Plants**

MYOSOTIS Ruth Fisher

## MYOSOTIS (Forget-Me-Not) 4 to 9 In.

Lovely dwarf plant for damp places, spreading rapidly and covering the ground. Makes excellent edgings and carpetings for beds or borders of perennial plants. We list the seeds of Alpestris varieties among annuals as they are better treated as such by those who have no hot-bed or cold frame accommodations for wintering the yearling plants.

8230 **Dissitiflora.** Rich blue, early and compact. One of the best. **Seeds,** 15c per pkt.

8240 ×**Palustris Semperflorens.** Dwarf blue, in flower from early spring until autumn. Thrives in almost any situation and is an ideal variety for rock gardens or edgings. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8245 **Vaughan's Early and Late-Flowering.** The flowers are borne on long, stiff stems. The blossoms are the most exquisite sky-blue with a delicate white center. Plants may be in bloom at any time of the year. **Seeds,** 10c per pkt.

8249 **Isolde Krotz.** Plant of compact habit, robust growth, flowers large true forget-me-not blue. Splendid for pots and spring bedding. Pkt., 25c

8250 **Ruth Fisher.** It is of particularly neat and compact habit, and the lovely blue flowers shoot up strongly over the glossy dark green foliage. **Seeds,** 25c per pkt.

8251 **Blue Bird.** A beautiful winter-flowering deep blue variety. **Seeds,** 25c per pkt.

**MYOSOTIS—For other varieties see page 58.**

## NEPETA (Mauve Catnip)

Neat bushes of small lavender-like foliage covered with terminal spikes of lavender-blue flowers, both foliage and flowers aromatic. For beds, edging or rock garden.

8254 ×**Mussini.** May-Sept. Light blue. 1 ft. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## NIEREMBERGIA

× **Rivularis (White Cup).** 4 in. May-Sept. Dwarf, creeping rock plant bearing cup-shaped white flowers all summer. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## OENOTHERA (Evening Primrose)

Showy and beautiful plants for borders, beds, etc., flowering from June to October.

8255 **Fraseri.** Rich golden yellow. Glaucous foliage. 2-3 ft. **Seeds,** 10c per pkt.

8261 ×**Missouriensis (Macrocarpa).** 1 ft. Long trailing stems with large yellow flowers followed by large winged seed. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8265 **Youngii.** 1-3 ft. Deep golden yellow flowers with reddish stems. **Seeds,** 20c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

# Vaughan's Perennial Flower Seeds and Plants

POPPY—Oriental

## PACHYSANDRA (Japanese Spurge)

×**Terminalis.** 4 to 6 in. Small whitish flowers in May, which are insignificant; deep green, evergreen foliage, after the Helleborus type but much smaller; unsurpassable where an evergreen carpet is required. Looks well on graves, around shrubs and under trees, thrives anywhere. Greatly used for planting under trees or any place where grass will not grow. Strong Pot **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. For planting large areas we can furnish rooted runners at $10.00 per 100.

## PAPAVER (Poppy)

8269 ×**Alpine Mixed.** 6 in. A charming miniature poppy with brilliantly colored flowers including white, pink, apricot, yellow or orange-scarlet, etc. Useful for rockwork. **Seeds,** 35c per pkt.

### Nudicaule (Iceland Poppy).

The plant is of neat habit, forming a tuft of bright green, fern-like foliage from which spring throughout the entire season a profusion of slender, leafless stems, 1 foot high, each graced with charming cup-shaped flowers. Few hardy flowers are better adapted for table decorations than Iceland poppies.

8275 ×**Yellow.** 8280 ×**Orange.**
8281 ×**Sulphureum.** 8271 ×**Flesh.**
8282 ×**White.** 8270 ×**Mixed.**

Each of above six Nudicaule varieties: Pkt., 10c.

8288 ×**Gibson's New Giant Orange.** Pkt., 20c.

8290 ×**Double Mixed.** Extra fine strain. Pkt., 15c.

8286 ×**Sunbeams.** Mixed. This is the result of a cross between the Shirley and Nudicaule types. The flowers are charming shades of orange, salmon, maize and other tints. Pkt., 25c.

### Orientale (Oriental Poppy)

For gorgeous coloring the Oriental Poppies have few rivals among hardy plants. They produce magnificent effect in shrubberies and herbaceous borders. The named varieties of Oriental Poppies do not come true from seed. 3 ft. May-June.

8300 **Annual Oriental.** A new strain of the Oriental Poppy, which will bloom the first year, if sown early. **Seeds,** 25c per pkt.

8310 **Oriental Red.** Very striking color. Pkt., 10c.

8307 **Beauty of Livermere.** Dark ox-blood. Pkt., 25c.

8311 **Carneum.** Light and dark salmon pink shades (70% true). **Seeds,** 25c per pkt.,

8306 **Perry's White.** 2½ ft. Large, handsome, satiny white flowers with purple-black blotch at base of each petal. **Seeds,** 25c per pkt.

**Olympia.** Double, rich scarlet. A striking new introduction. Very free blooming. **Plants,** 3 for $1.50; doz., $5.00; 100, $35.00.

8308 **Mahoney.** Maroon, shaded, crimson. **Seeds,** 15c per pkt.

8309 **Mrs. Perry.** Delicate salmon-rose. with black blotches. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

**Royal Scarlet.** **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8305 **Princess Victoria Louise.** Large flower, soft lilac-rose color. **Seeds,** 15c per pkt.

8315 **Oriental Hybrids. Mixed.** Pkt., 10c.

## PENTSTEMON (Beard Tongue)

They are very showy, growing from 2 feet to 4 feet high, are rather bushy and have very long, slender spikes which bear many trumpet-shaped flowers with hairy throats from whence the name "Beard Tongue" comes.

8316 **Barbatus Torreyi (Chelone Barbata).** 3½ ft. July-August. Coral red. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8317 **Coccineus.** Scarlet. **Seeds,** 10c per pkt **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8324 **Glaber.** 3-ft. July-Sept. Blue. Pkt., 25c.

8325 **Pubescens.** Rosy purple. 2 ft. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50.

**Lyoni.** 2 to 4 ft. Dark glossy foliage, purple red flowers, spikes are borne profusely during Aug. and Sept. **Plants,** 3 for 85c; doz., $2.50.

8330 **Large Flowering Newest Hybrids.** Splendid assortment of colors. **Seeds,** 15c per pkt.

8335 **Digitalis.** 2 ft. June-July. White flowers with purple throat. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8377 **Southgate Gem.** 2 ft. Long graceful stems carrying numerous rich poppy-red flowers, showing pure white throats. **Seeds,** 25c per pkt.

**For other varieties see page 60.**

### Pentstemon Collection No. 82

One plant each of 4 varieties, our selection, for $1.10.

## PEONY

8339 **Chinensis Double Mixed.** Seed saved from our own collection at our nursery. Seed germinates very slowly. Keep seed bed undisturbed for one year. **Seeds,** 15c per pkt. **Plants, see page 87.**

## PHLOX (Hardy)

8340 **Decussata.** 2-3 ft. June-Oct. Perennial varieties mixed from a celebrated collection. Seed slow and erratic in germinating and the seedlings may not appear for a year. **Seeds,** 15c per pkt. **Plants, see page 87.**

**PHYSALIS Franchetti (Chinese Lantern Plant) See page 72.**

**PHYSOSTEGIA—See page 72.**

## PLATYCODON (Chinese Bell Flower)

Very handsome border plants of the Campanula family, the flowers in bud having the appearance of inflated balloons; they flower from June to Sept.

8360 **Grandiflorum.** 1-2 ft. Large, handsome, deep blue flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two year clumps, 3 for $1.00; dozen, $3.50; 100, $25.00.

8365 — **Album.** White. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8366—**Early Flowering Blue.** **Seeds,** 15c per pkt.

8367—**Early Flowering White.** **Seeds,** 15c per pkt.

8370 ×**Mariesii Blue.** 1 ft. Deep blue flowers, dwarf. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50.

8375 × — **Alba.** White. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50.

## PLUMBAGO (Leadwort)

×**Larpentae.** 8 inches. Dwarf spreading habit covered with deep blue flowers all summer and fall. **Plants,** 3 for 85c; doz., $2.50; 100; $15.00.

## × Rock Plants

PLATYCODON

PRIMULA Veris

## POLEMONIUM (Jacob's Ladder)

Free flowering hardy perennial herbs, belong to the Phlox order. They have graceful, pinnate leaves, and bear their flowers in loose heads. Showy plants for the mixed, sunny border.

8380 **Coeruleum (Greek Valerian).** 2 ft. Beautiful sky-blue flowers with golden anthers. April-July. Foliage fern-like. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8385 —**Album.** Pure white. Pkt., 10c.

8386 —**Prima Donna.** Dwarf plant with delicate light blue flowers, 18 inches. **Seeds,** 20c per pkt.

8387 ×**Reptans.** 8 to 10 in. April-June. Dwarf bushy plant of graceful growth. Showy blue flowers. **Seeds,** 15c per pkt.

8388 **Richardsoni.** 18 in. Really a variety of pumila, has large sky-blue flowers with a yellow eye. Flowers May to Sept. **Seeds,** 25c per pkt.

## PRIMULA (Primrose)

These hardy Primroses are among our most delightful spring flowers. They require a partially shaded location and are fine for a rock garden.

**Acaulis Lilacina, Fl. Pl. (Lavender Beauty).** A fine new double variety, similar in habits and character to Primula Veris, but having large double lilac blooms. Has proved hardy around Chicago and has attracted much attention at Flower Shows. **Plants,** 3 for $1.50; doz., $5.00.

8402 ×**Acaulis (Vulgaris) (Common Primrose).** Flowers bright yellow; fragrant. **Seeds,** 10c per pkt.

8403 ×**Auricula.** 6 in. Flowers in early spring in colors of yellow, brown and red. Pkt., 25c.

8404 **Beesiana.** 18 in. Chinese species has woolly leaves with brilliant velvety purple flowers with a large yellow eye. Borne in whorls in April and May. **Seeds,** 35c per pkt.

8405 ×**Bullesiana Hybrida.** New hybrids of rose, orange, carmine, light and dark blue. Pkt., 50c.

8405A ×**Cashmeriana.** 1 ft. Flowers in dense heads lilac in color. Blooms early. **Seeds,** 25c per pkt.

8405B **Cortusoides Grandiflora Sieboldii.** 1 ft. A Siberian species with umbels of deep rose with white eye. April. Creeping root. Pkt., 35c.

8405C **Cortusoides Grandiflora Rosea.** Pkt., 35c.

8406 ×**Floribunda Grandiflora.** A large flowered yellow variety that does well in winter in pots. **Seeds,** 35c per pkt.

8408 ×**Japonica Mixed.** One of the most stately and attractive species. Several superimposed whorls of flowers on stems. 8-24 in. high. Seed germinates very slowly. June. **Seeds,** 15c per pkt.

8410 ×**Japonica. (Special Strain).** Colors range through all shades of white, rose, pink, crimson, mauve and lavender, bright crimson with orange eye. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

8412 ×**Officinalis.** The common yellow cowslip. **Seeds,** 15c per pkt.

8413 ×**Pulverulenta.** 18 in. Shining purple-carmine flowers. **Seeds,** 35c per pkt.

8414 ×**Rosea Grandiflora.** Rose carmine. 8 in. May-June. **Seeds,** 35c per pkt.

8415 ×**Veris, Mixed.** The Oxlip, bearing bright flowers in umbels. Seed germinates slowly. 6-9 in. **Seeds,** 15c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, for $25.00.

8416 ×—**Grandiflora, Mixed.** An extra choice large flowered mixed strain. **Seeds,** 25c per pkt.

8417 ×—**Munstead Strain.** A giant polyanthus in many charming light shades. Pkt., 35c.

8418 ×—**Lutea.** Yellow. **Seeds,** 25c per pkt.

### Primula Collection No. 83

One plant each 3 varieties our selection for $1.25.

**PYRETHRUM—See page 72.**

# Vaughan's Perennial Flower Seeds and Plants

SCABIOSA Caucasica

## POTENTILLA (Cinquefoil)

Potentillas greatly resemble the Strawberry plant, especially in the manner of growth and the foliage. This is a trailing plant which covers the ground rapidly and sends out roots as it goes along. The flowers are very showy, the colors are very bright.

8390 **Formosa.** Cherry rose-colored flowers in summer. 1-2 ft. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8392 **Nepalensis (Miss Willmott).** Flowers salmon-pink very freely produced. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8400 **Double Mixed.** All colors. **Seeds,** 20c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8401 **Rupestris.** 20 in. Flowers white in June. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**POPPY—See Papaver.**

## POTERIUM (Burnet)

**Obtusum (Japanese Burnet).** 3 ft. July-September. A rare plant of recent introduction. It has graceful pinnate foliage and catkin-like crimson flowers about three inches long. Very ornamental and fine for cutting. **Plants,** 50c each.

## PUERARIA (Kudzu Vine)

8425 **Thunbergiana (Jack-and-the-Bean-Stalk).** 50 ft. Flourishes where nothing else will grow. The large bold leaves of the brightest green afford a dense shade. Its greatest feature is its wonderful strong growth. **Seeds,** 10c per pkt. For roots see Hardy Vines, page 97.

## PYRETHRUM

8429 **Ptarmiciflorum.** 6 in. Silvery white, graceful, feathery foliage, a fine ornamental plant valuable for pots, beds and rockeries. Pkt., 35c.

**For other varieties, see color section.**

## RANUNCULUS (Buttercup)

Well-known double yellow buttercup, effective either as a cut flower or grouped in the hardy borders.

8446 ×**Asiaticus.** Flowers in May, variable in color, generally double in form, will bloom from seed the first year if sown early. 6-12 in. Pkt., 15c.

**Acris Fl. Pl. (Double Buttercup.)** May-June. Yellow. **Plants,** 3 for 85c; doz., $2.50; 100 $15.00.

×**Repens Fl. Pl.** Double creeping Buttercup. May-June. 6 in. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## ROMNEYA

8445 **Coulteri (California Tree Poppy).** 5 ft. An exceedingly beautiful, sub-shrubby, California perennial, with glaucous, pinnatified leaves, woody stems and large, satiny, white fragrant, poppy-like flowers. The flowers often measure 6 in. in diameter, and the numerous golden stamens which fill the centers add materially to their beauty. Not hardy in middle west. **Seeds,** 15c per pkt.

## RUDBECKIA (Cone Flower)

Hardy, free flowering and easily grown perennials belonging to the Daisy order. They are somewhat akin to the Sunflowers in habit. Excellent and showy plants for sunny or partially shaded borders, and for yielding flowers for cutting. Natives of N. America.

8455 **Hirta. (Black-Eyed Susan.)** 1-3 ft. Pkt., 10c.

8460 **Speciosa (Newmanii).** 3 ft. Rich golden yellow with central black disc. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Purpurea Grandiflora.** See **Echinacea Purpurea.**

**Laciniata Fl. Pl. (Golden Glow.)** July-October. Yellow. 5 to 7 ft. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## REHMANNIA

8449 **Angulata.** 2 ft. Large Incarvillea-like flowers in rose and red shades. **Seeds,** 25c per pkt.

## SALVIA

Showy, hardy plants of medium growth and of easy cultivation in sunny borders. The flowers are borne in spikes, racemes, or panicles, and very attractive during the summer months.

8470 **Argentea.** 3 ft. June. Silvery white foliage, pyramids of yellow flowers. **Seeds,** 10c per pkt.

8471 **Azurea Grandiflora. (Syn. Pitcherii).** 4 ft. September-October. Stately willow-like growth, spikes of pale blue flowers in great profusion. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100 for $15.00.

8475 **Nemorosa Superba.** Deep violet, 2½ ft. Pkt., 25c.

8476 **Nutans.** 3 ft. A dark blue drooping flower. **Seeds,** 15c per pkt.

8477 **Pratensis.** 2 ft. A violet blue. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8479 **Pratensis Atro-Violacea.** Dark violet, 20 in. Pkt., 25c.

8478 **Verbascifolia Syria.** 5 ft. Makes a bold clump of foliage, the oval leaves fully one foot in length and half as broad, being dull olive-green above, deeply netted and covered on the under side with creamy white felt. Flower spikes 18 in. tall. Flowers dark blue. Pkt., 25c.

8480 **Patens.** 2 ft. Large, rich deep blue flowers. Roots should be dug and wintered in cold cellar. Sept. **Seeds,** 25c per pkt.

**Pitcheri (Meadow Sage).** Sept.-Oct. Deep blue. 3½ ft. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

**Officinalis (Common Sage).** White-woolly. 6-12 in. **Plants,** 3 for 65c; doz., $2.00; 100, $10.00.

## SAPONARIA

8482 ×**Ocymoides Splendens.** 6 in. A showy dwarf trailing plant, producing a sheet of vivid crimson flowers. June-August. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8481 **Officinallis.** 2 ft. "Bouncing Bet," a native wild flower with whitish flowers. Pkt., 10c.

## SAXIFRAGA (Megasea)

The Saxifrages are one of the largest and one of the most important genus of plants, connected with Alpine gardening.

8483 ×**Aizoon.** 6 in. Flower petals cream color often spotted at the base. **Seeds,** 25c per pkt.

×**Cordifolia.** Light pink. 1 ft. May. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

8487 ×**Cordifolia Splendens.** 2 ft. Useful little plant for rock gardens. Bright rose-pink. Pkt., 35c.

8486A ×**Hybrida Bedding Queen.** 9 in. Deep carmine flowers. **Seeds,** 25c per pkt.

8488A ×**Hybrida Purple Robe.** 9 in. Carmine with a purple reflection. **Seeds,** 25c per pkt.

## × Rock Plants

SALVIA Azurea Grandiflora (Pitcherii)

SEDUM Spectabile

SAXIFRAGA—Continued

8485A ×**Hypnoides.** 3 in. Dovedale Moss or Eve's Cushion. Flowers white in May and June on long stout and slender stems. **Seeds,** 25c per pkt.

8488 ×**Lingulata Leichtlini.** 30 inches. Bright red rock garden subject. **Seeds,** 50c per pkt.

×**Crassifolia.** 1 ft. Large clustered leaves, graceful sprays pink flowers. April-June. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

8486 ×**Decipiens Grandiflora.** Masses of white flowers. 18 in. **Seeds,** 35c per pkt.

×**Decipiens (Crimson Moss).** 4 in. Charming mossy foliage. White flowers. May-June. **Plants,** 3 for $1.00; doz., $3.50; 100, $25.00.

8489 ×**Rhei superba.** Rose. 12 in. May-July. **Seeds,** 35c per pkt.

## SCABIOSA (Pincushion)

To those persons who are familiar with the annual sorts of Scabiosa, we need only say the perennials resemble the annuals except that the perennials have shorter florets at the center.

8490 **Caucasica Perfecta.** Light blue flowers prettily fringed on long stem; fine for cutting. 18 in. June-October. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8491 **Caucasica Alba.** White. **Seeds,** 25c per pkt.

8492 **House's New Giant Hybrids.** 18 in., June-Oct. Large flowers in various shades of blue and lavender. See full description on page 64. **Seeds,** 25c per pkt. **Plants,** 3 for $1.25; doz., $4.00; 100, $30.00.

8494 **Columbaria Delicate Pink.** Flowers measure 2 inches across—very freely produced of a beautiful shape somewhat smaller than Scabiosa Caucasica, of a deep rosy mauve almost a rose. Deeply lacinated foliage. Pkt., 25c. **Plants,** 3 for $1.25; doz., $4.00.

8495 **Japonica.** 2 ft. Lavender-blue flowers. September to frost. **Seeds,** 10c per pkt.

## SCUTELLARIA

8495A ×**Coelestina.** Pretty blue Siberian rock plant. **Seeds,** 25c per pkt.

## SEDUM

Fine plants for rock gardens. A genus of plants with more or less fleshy leaves belonging to the Houseleek order. The species vary in habit from dwarf, creeping plants to those of larger growth, as the Spectabile, grows upwards of 2 ft. high. Some, too, are of evergreen and others of deciduous growth. The dwarf kinds do well as edgings to borders and the others are suitable for grouping in the mixed border. They are the easiest of all plants to grow.

8501 ×**Acre (Golden Moss).** 3 in. This low tufted perennial spreads over the soil. The leaves are small, attractive, light green. The flowers, bright yellow in color, completely cover the plants and open in June and July. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Album.** 3 in. Thick waxy green foliage, white flowers in May-July. **Plants,** 3 for 85c; doz., $2.50.

8502 ×**Coeruleum.** Flowers pale blue, 1 in., across. **Seeds,** 25c per pkt.

×**Hispanicum.** 2 in. Mossy growth with grayish blue foliage, dense and prolific. 3 for 85c; doz., $2.50.

×**Murale.** 5 in. Mossy foliage showing pink stems and turning reddish in fall. White flowers in June. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

# Vaughan's Perennial Flower Seeds and Plants

STATICE Latifolia (Sea Lavender)

SEDUM—Continued

8504A ×**Middendorfianum.** 6 in. Numerous yellow flowers. **Seeds,** 25c per pkt.

8505A ×**Reflexum.** 8 in. Trailing stems, flowers yellow, ¾ in. across. **Seeds,** 25c per pkt.

**Rubrum.** June-August. Brownish red foliage, light pink flowers. 18 in. **Plants,** 3 for 85c; doz., $2.50.

×**Sarmentosum.** 5 in. Rapid grower, yellowish-green foliage. Yellow flowers, May-June. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Sexangulare (Hexagon Stone Crop).** 3 in. An improved Acre. Very dark green foliage, dense and prolific. Bright yellow flowers produced in profusion during May and June. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Sieboldii.** 4 in. Round succulent, glaucous foliage; bright pink flowers in August and September. Grows slowly but is probably the most beautiful of all sedums. **Plants,** 3 for $1.00; doz., $3.50.

8503 ×**Spurium.** 6 in. From the Caucasus, has pink flowers which appear in July and Aug. **Seeds,** 25c per pkt.

8503A **Spurium Coccineum Splendens.** 5 in. Creeping habit, rosy mauve. **Seeds,** 25c per pkt.

×**Stoloniferum (Coccineum).** 5 in. Very attractive trailing and semi-erect. Bronze-red foliage with purple-pink flowers during July and August. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Spectabile.** 18 in. One of the prettiest erect-growing species, with broad, light green foliage and immense heads of handsome showy rose-colored flowers. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Spectabile Brilliant.** June-July. Same as Spectabile but flowers a vivid pink. 18 in. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

### Sedum Collection No. 84

One plant each, 6 varieties, our selection, for $1.60.

## SEMPERVIVUM (Hen and Chickens)

×**Arachnoideum.** (Cobweb Housebeck) Rosettes barely 1 inch diameter tinted red-brown and in the growing season the leaf tips are connected by many soft white hairs giving the rosette a cob web covering. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

×**Globiferum.** Flattened rosettes 2 to 3 inches diameter, grey-green leaves tipped brown. Pale yellow flowers in June. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

8507A ×**Perennial Hybrids Mixed. Seeds,** 50c per pkt.

×**Tectorum.** 3 to 4-inch rosettes, leaves tipped reddish brown. Light red flowers. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

## SIDALCEA

Graceful, hardy perennials with Hollyhock-like flowers borne on slender spikes. Suitable for sunny borders. The genus belongs to the Mallow order.

8496 **Rose Queen.** 2-3 ft. July-Aug. Beautiful rose-pink flowers. Very distinct. **Seeds,** 15c per pkt.

8497 **Rosy Gem.** 4 ft. Produces numerous flower spikes of pretty clear rose shade. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## SILENE (Catchfly)

A charming class of plants for the rock garden. They are closely allied to the Pink family and require much the same treatment. They bloom nearly all summer.

8508 **Alpestris.** 6 in. May to July. Sheets of glistening white flowers. **Seeds,** 25c per pkt.

8508A **Asterias Grandiflora.** 1½ ft. Globular heads of carmine-scarlet flowers. **Seeds,** pkt. 15c.

8500 ×**Orientalis.** 8 in. Tall, robust-growing biennial of neat habit; plants freely branched from the base, each branch carrying a large globular head of bright rose flowers, which are clove-scented. **Seeds,** 10c per pkt.

8509 ×**Schafta.** 4 in. July-October. Bright rose; one of the best autumn border plants. Pkt., 15c. **Plants,** 3 for 85c; doz., $2.50.

8509A **Saxifraga.** 10 in. June to Aug. Flowers yellowish on upper surface, reddish-brown underneath. **Seeds,** 25c per pkt.

## SISYRINCHIUM

8500A ×**Anceps.** 6 in. Blue-eyed grass, deep blue flower with darker eye. **Seeds,** 15c per pkt.

## SOLIDAGO (Golden Rod)

Hardy, free flowering, and showy perennials, suitable for ordinary borders, naturalizing in the wild or woodland garden, or by the waterside. All yellow-flowered borne in terminal, arching racemes. Native of North America, and members of the daisy order.

8510 **Canadensis.** 3-5 ft. Aug.-Nov. Gracefully arched sprays of golden yellow flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz.; $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $25.00.

STOKESIA Cyanea

## SPERGULA

8512 ×**Pilifera.** 4 inches. A hardy evergreen suitable for grass edging or rockwork. Pkt., 35c.

## STACHYS (Lamb's Ears)

8515 **Lanata.** 1-1½ ft. Grown for the effect of its dwarf, white woolly foliage; the flower spikes should be removed. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## STATICE (Sea Lavender)

They are stemless, the leaves springing direct from the root stock and the flower stems are more or less twiggy, bearing their small flowers in much-branched panicles. The flowers are useful for drying for winter use. They belong to the Thrift order.

8516 **Caspia.** The multitude of small flowers composed in spikes 2 to 3 ft. long of a tender lilac color. **Seeds,** 15c per pkt.

8519 ×**Incana Nana Alba.** 1 ft. Small pearly white flowers on branching stems. **Seeds,** 15c per pkt.

8520 **Latifolia.** 2 ft. Dense branching plumes of deep blue flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $25.00.

8517 **Perezii.** Rich bright blue. **Seeds,** pkt. 25c.

8518 **Tatarica.** White, useful for drying. Pkt., 25c.

× Rock Plants

## STOKESIA (Stokes Aster)

Very handsome perennials with flowers that appear to be a cross between a china aster and a corn-flower.

8525 **Cyanea.** 18 in. July-Oct. Flowers rich blue, very distinct. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $25.00

8526 —**Alba.** White flowers. Pkt., 15c.

8535 —**Mixed** blue and white. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**SWEET WILLIAM—See Color Section.**

## TARRAGON

**True.** Used for cooking purposes. (This variety does not produce seed.) 3 for 85c; doz., $2.50.

## THALICTRUM (Meadow Rue)

The foliage is very finely divided like that of the Maiden-hair fern or Columbine and is useful in making bouquets. The flowers are borne in feathery clusters. Easy of cultivation.

8540 ×**Adiantifolium.** 9 in. June-July. Light plumes of small whitish flowers. **Seeds,** 10c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8541 **Aquilegifolium.** Feathered Columbine. Handsome foliage; sepals white, stamens purple. 3 ft. Pkt., 15c **Plants,** 3 for 85c; doz., $2.50.

8545 **Dipterocarpum.** 4 to 5 ft. Aug.-Sept. Very graceful plumes of rosy purple flowers with conspicuous yellow anthers. **Seeds,** 25c per pkt. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

8546 **Flavum.** Common yellow variety. 2-4 ft. Flowers in June. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $25.00.

8547 **Glaucum.** Fine cut glaucous foliage. Bronze-yellow flowers in June. 2 ft. **Seeds,** 15c per pkt. **Plants,** 3 for 85e; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $25.00.

## THERMOPSIS

8548 **Caroliniana.** 3 to 5 ft. Racemes of yellow lupin-like flowers, 6 to 12 inches long. Blooms in June and July. **Seeds,** 25c per pkt.

## THYMUS (Mountain Thyme)

Related to the ordinary thyme herb. Varieties below are much used in rock gardens for carpeting effect.

×**Citriodorus (Lemon Thyme).** 4 in. Bright green foliage, red flowers. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8549 ×**Serpyllum, Wild Thyme.** Dwarf growing perennial herb with fragrant foliage. Delights in sunny spot, creeping habit. Purple flowers. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Serpyllum Coccineum.** 2 in. Matted dark green foliage, dark red flowers. June-July. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Serpyllum Album.** 2 in. Like coccineum but white flowers. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Lanuginosus.** 3 in. Woolly leaved Thyme, pink flowers. June-July. **Plants,** 3 for $1.00; doz., $2.50; 100, $15.00.

THALICTRUM Dipterocarpum

# Vaughan's Perennial Flower Seeds and Plants

VERONICA Speedwell

## TRADESCANTIA

**Virginiana.** (Spiderwort) A native perennial. Long grass-like leaves and blue or violet flowers consisting of three sepal-like segments and three petal-like ones borne in dense umbels. 2 ft. May-August. **Plants,** 3 for 85c; doz., $2.50.

## TRILLIUM (Wake Robin)

**Grandiflorum.** 12 in. One of the most beautiful of our native spring-flowering perennials with tuberous root stocks, and furnished with three leaves borne in a whorl, and flowers with three petal-like segments. Splendid for naturalizing in moist shaded places. Flowers are pure white. Blooms early, should be planted before April 15th. **Plants,** 3 for 65c; doz., $2.00; 100, $10.00

## TRITOMA (Red-Hot Poker)

Very handsome and showy border plants. Flowers borne in compact form on stout 3 and 4 ft. stems, having the appearance at a distance of orange and red colored spear heads. Require protection during winter, unless in a very sheltered position.

8557 **Express.** An early-flowering yellow with a red bud. **Seeds,** 25c per pkt.

**Grandis (Pfitzeri).** Orange-scarlet. 2-3 ft. Aug.-Sept. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

8556 **Hybrida Early-Flowering Mixed.** These hybrids will contain many interesting colors and all will flower early. **Seeds,** 25c per pkt.

**Royal Standard.** New. Golden yellow base, brilliant scarlet top. **Plants,** 75c each.

8555 **Uvaria Grandiflora.** 4 ft. August-November. The ordinary red Tritoma. **Seeds,** 15c per pkt.

## TROLLIUS (Globe Flower)

Hardy herbaceous perennials belonging to the Buttercup order. Attractive spring and early summer flowering plants for moist partially shaded borders or for the waterside. Leaves palmately lobed or cut. The flowers are globe shaped, yellow or orange in color, useful for cutting. Seed germinates very slowly.

8550 **Europaeus.** (Golden Ball.) 20 in. Yellow. **Seeds,** 25c per pkt.

8551 **Ledebouri.** 2 ft. Orange flowers. **Seeds,** 50c per pkt. **Plants,** 3 for $1.40; doz., $4.50.

8553 **Ledebouri Golden Queen.** 3½ ft. (See Perennial Novelty pages for seeds.

8554 **Hybridus Mixed.** 20 in. **Seeds,** 25c per pkt.

## TUNICA

8559 ×**Saxifraga.** A pretty tufted plant with light pink flowers, produced all summer. Useful either for the rockery or the border. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## VALERIANA (Garden Heliotrope)

8566 **Officinalis.** Produces showy heads of rose-tinted white flowers during June-July with delicious strong heliotrope odor. 3 to 4 ft. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8560 **Rubra.** 2 ft. Sweet-scented purple rose flowers. Pkt., 10c. **Plants,** 3 for 85c; doz., $2.50.

8565 **Alba.** Pure white fragrant flowers. Flowers in June and is one of the most charming perennials. **Seeds,** 10c per pkt.

8564 **Mixed.** The above two. Pkt., 10c.

## VERBASCUM

Plants of stately growth. The leaves more or less woolly, and the flowers are borne in branched spikes. Belongs to the Foxglove order.

8567 **Olympicum.** 6 ft. Silvery foliage; golden yellow flowers borne in large pyramidal spikes. June-Sept. **Seeds,** 25c per pkt.

8568 **Hybridum, Miss Willmott.** The large white flowers are produced in stately spikes, rising to a height of 5 to 6 feet and continue from July to frost. **Seeds,** 15c per pkt.

8569 **Phoeniceum Hybrids.** 2 ft. Bears white, purple, rose or red flowers in erect spikes in summer. Pkt., 25c.

8569A **Harkness Hybrids Mixed.** 6 ft. Immense spikes well furnished with large pure yellow flowers during the whole summer. **Seeds,** 25c per pkt.

## VINCA Minor (Grave Myrtle) ×

Valuable for rockeries or makes a fine evergreen carpet under and about shrubs and trees. 4 in. June. Green foliage, large blue flowers. **Plants,** 3 for 65c; doz., $2.00; 100, $12.00.

TROLLIUS (Globe Flower)

## VERONICA (Speedwell)

Hardy, herbaceous perennials belonging to the Foxglove order. They vary in height from a few inches to 3 or 4 ft., and bear blue or white flowers in terminal spikes or racemes. Showy plants for sunny borders, and all of easy culture.

8571 **Amethystina.** June-July. Creeping foliage. Amethyst blue. 1 ft. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $20.00.

8570 **Spicata.** Blue. 2 ft. July-August. Small spikes of rich blue flowers. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00. Two-year clumps, 3 for $1.00; doz., $3.50; 100, $20.00.

**Elegans.** 1½ ft. Erect growing, big spikes, pink flowers. July. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8575 **Perennial Varieties, Mixed.** **Seeds,** 15c per pkt.

8576 **Longifolia.** Spikes of light blue flowers, glaucous blue foliage. 2½ ft. July-Sept. **Seeds,** 15c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8572 ×**Longifolia Hendersoni Nana.** 1 ft. Dark blue flowers freely produced. **Seeds.** 25c per pkt.

**Longifolia Subsessilis.** 2 ft. July-Sept. Spikes completely studded with blue flowers. A choice variety for cutting or decorative effect **Plants,** 3 for $1.50; doz., $5.00; 100, $35.00.

× Rock Plants

VERONICA (Speedwell)—Continued

8577 ×**Incana.** Ageratum-blue flowers, gray foliage. 12 in., summer. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8578 ×**Prostrata Mixed.** Blue and white. Trailer. June-July. **Seeds,** 25c per pkt.

8573 ×**Repens.** 1 in. Useful carpeting plant Blue flowers. May-June. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

×**Rupestris.** Dwarf and spreading. Deep blue flowers. May-June. **Plants,** 3 for 85c; doz., $2.50.

8574 ×**Teucrium "Royal Blue."** 12 in. May-June. Prostrate foliage, brilliant blue flowers. **Seeds,** per pkt., 15c. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

### Veronica Collection No. 85

One plant each, 4 varieties, our selection, for $1.20.

## VIOLA (Violet)

8581 ×**Bosniaca.** Free blooming, small rose magenta flowers. **Seeds,** 25c per pkt. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

8584 ×**Gracilis Lord Nelson.** Glowing violet purple. 6 in April-August. **Seeds,** 35c per pkt

8580 ×**Single.** Deep blue, common single violet. **Seeds,** 10c per pkt.

×**Double Russian.** Deep purple blooms, very double. Hardy and does well in partial shade **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

×**Prince of Wales.** Hardy violet grows anywhere. Large single fragrant blooms. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## VIOLA CORNUTA

**For Seeds—See Color Section, Novelty and Rock Garden Pages.**

**Admiration.** Light blue. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**Jersey Gem.** Short, bushy growth, blooming throughout the summer, having flowers of rich pure violet, large and fragrant. Long stems make it a good cut-flower. **Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

**Lutea Splendens.** Rich golden yellow. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

**White Perfection.** One of the finest whites. **Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

## WISTERIA

8589 **Chinensis Blue.** Climber, pale green foliage with drooping clusters of purplish pea-shaped flowers. The clusters are about a foot long and freely produced. **Seeds,** 15c per pkt.

## YUCCA (Adam's Needle)

8585 **Filamentosa.** 5-6 ft. or more. June-July. Has broad swordlike evergreen foliage which makes a large round clump. The flowering stalks are bare as much as 6 feet high, with large drooping creamy white flowers It likes loose dry soil and a warm situation. **Seeds,** 10c per pkt.

—**2-Year Plants,** 3 for 85c; doz., $2.50; 100, $15.00.

—**3-Year Plants,** 3 for $1.00; doz., $3.50.

8586 **Glauca Angustifolia.** (Soapwood Yucca.) Long stiff narrow evergreen foliage, flowers large white or purplish. **Seeds,** 25c per pkt.

—**2-Year Plants,** 3 for $1.00; doz., $3.50; 100, $20.00.

—**3-Year Plants,** 3 for $1.25; doz., $4.00; 100, $30.00.

YUCCA Filamentosa

The most delicate and elegant of all small flowered Irises. They grow on tall stems, have graceful, grass-like foliage, and are excellent for cutting. Always ornamental.

JAPANESE IRIS

SIBERIAN IRIS

DOMINION

# Vaughan's Irises

## Flag Iris or Fleur de Lis

**PLANTS BY PARCEL POST**—If to be sent by parcel post, add postage as follows: Single plants, 5c; 3 plants, 10c; 6 plants, 15c; 12 plants, 25c. We accept no responsibility for delays or conditions that may prove injurious to the contents.

**PLANTS BY EXPRESS**—We recommend this mode of transit where quantities are over 18 to 24 plants. We pack carefully, but accept no responsibility for delays over which we have no control that may cause injury to the contents.

**"S" refers to the three standard, or upright curling petals; "F" to falls or drooping petals.**

The figures preceding the varieties are the exhibition rating given to them by the Iris Society, 10 being the highest rating used in judging.

**Iris are the most effective if planted 3 of a kind in a clump.**

### Relative Prices (except where noted)

35c varieties supplied 3 of one kind for 70c.
50c varieties supplied 3 of one kind for $1.00.
75c varieties supplied 3 of one kind for $1.50.
$1.00 varieties supplied 3 of one kind for $2.00.

### NEW VARIETIES AND NOVELTIES

8.1 **Ariadne.** 38 in. A beautiful flower of good substance; S. pure silvery light blue, with waved edges; F. deeper blue with violet base. $1.00.

9.2 **Asia.** 45 in. One of the most beautiful and finest Irises in cultivation. S. pale silvery lavender deepening at the base to golden yellow. F. pale reddish purple, lighter at the edges. Flowers exceptionally large. Late. 75c.

7.4 **Autumn King.** 30 in. A blue-purple bicolor of fine size and shape that has a habit of blooming a second time in the autumn. $1.00.

**Baldwin.** 40 in. Finely formed flowers of a uniform manganese violet color. A Sass variety of gigantic size and outstanding quality. $5.00.

8.4. **Canopus.** 36 in. A wonderful Dominion seedling. S. reddish violet, broad and finely arching; F. rich pansy violet. Large flowers. $1.00.

8.4 **Caroline E. Stringer.** 33 in. Large delicate rose-flushed flowers of exceptional substance. Strong vigorous plant and free bloomer. $1.00.

8.2 **Chasseur.** 36 in. Beautiful cream-colored buds marked with gold and brown and large, artistically formed flowers with broad standards and well-rounded falls of clear yellow, shaded lighter at the center. $1.00.

9.3 **Dolly Madison.** 38 in. S. mauvette shading to yellow at base; F. lilac tinged old gold at haft. Sometimes described as a Glorified Quaker Lady. Very fine as its high rating indicates. $5.00.

8.8 **Dominion.** 30 in. An outstanding Iris because of its wonderful rich coloring and extraordinary development of the falls. S. Dauphin's blue or light bluish violet; F. deep indigo-purple well expanded. $2.50.

**Elizabeth Egelberg.** 48 in. A sensational new Iris that is best described as a lighter and pinker Magnifica. The flowers are enormous with tall, dome-shaped standards and flaring falls. Hardy and vigorous growing. $10.00.

8.1 **Empress of India.** Beautiful flowers of violet-blue. Deliciously fragrant Flowers for a long time. 50c.

8.0 **Folkwang.** 30 in. S. light rose-pink; F. claret-red with conspicuous veining of brownish yellow, edged rose-pink. Beautiful color blend. $1.00.

8.9 **Frieda Mohr.** 42 in. A gigantic pink toned Iris that measures 6½ inches from the top of the standards to the tip of the falls and 6 inches horizontally. The flower is of perfect form, good texture and brilliant coloring; very stately and beautiful and one of the very best of the "pinks." Exquisite locust-like perfume. $2.50; 3 for $6.00.

8.3 **George Yeld.** 40 in. An outstanding variety with a new combination of colors. S. bright apricot; F. brilliant rose-crimson, edged buff. 75c.

9.1 **Germaine Perthuis.** 36 in. An enormous, rich violet purple, self-lighted by a striking yellow beard. Flowers have a wonderful velvety appearance and are deliciously scented. A descendent of S. de Mad. Gaudichau. $2.50.

8.6 **Gold Imperial.** 33 in. Brilliant chrome yellow throughout except for conspicuous orange beard. A fine Iris of rare texture and form. 50c.

8.5 **Jubilee.** 30 in. A large ruffled flower of extra heavy substance. S. buff or rich peach color; F. cream white, margined and flecked deep copper. $1.00.

**King Tut.** 34 in. S. brown suffused with red; F. velvety glowing brownish-red. Large flowers of beautiful coloring. $5.00.

**Labor.** 36 in. An extraordinary Iris of an absolutely new color. S. dark violet heliotrope suffused with a soft coppery glow; F. deeper shade. A beautifully colored new Iris that is highly rated in England. $2.00.

**Le Correge.** 42 in. S. light bronze suffused with lavender and rose; F. bright, dark velvety red. Orange beard. A large, finely formed flower of more brilliant coloring than Ambassadeur. Fragrant. $3.50.

8.8 **Leonato.** 48 in. An unusually fine Iris with exceedingly large and shapely fragrant flowers. Color pale lavender to silvery heliotrope. $1.00.

8.8 **Majestic.** 42 in. Dominion Seedling. Very large flowers of fine form, good substance and lasting quality. S. circular and arching, light lavender to mauve; F. very rich velvety raisin-purple. $1.00.

8.4 **Mary Gibson.** 42 in. S. light bronze overlaid with old rose; F. old rose suffused bronze with yellow base. Beautiful and distinctive. 75c.

**Midgard.** 36 in. One of the new varieties introduced by Mr. Sass. Exceptionally large flowers of a yellow and pink blend of indescribable beauty. $3.50.

8.6 **Mildred Presby.** S. white; F. rich, dark, velvety pansy-violet with narrow edge of lavender white. Large flowers of clear coloring. 75c.

9.1 **Morning Splendor.** 48 in. S. petunia violet; F. rich raisin-purple. Gives a beautiful red effect in the garden delightfully fragrant. 75c.

**Nebraska.** 34 in. Fine large flowers of rich apricot yellow. The standards are ruffled and thefalls striped and clouded brown. Very beautiful. $3.00.

9.1 **Santa Barbara.** 40 in. A gigantic light blue self of perfect form with flaring falls. An outstanding variety and one of the finest of its color. $1.00

9.2 **Souv. de Loetitia Michaud.** 48 in. Magnificent flowers of an attractive shade of lobelia blue, shading toward the edge to pale blue. $1.50.

8.5 **Susan Bliss.** 42 in. Exquisite flowers of a uniform shade of deep rose-pink with a light orange beard. Fine shape and of splendid substance. 50c.

8.2 **Taj Mahal.** 38 in. A very fine white of good shape and great substance borne on tall, well-balanced stalks. Vigorous grower. 75c.

8.8 **Tenebrae.** 36 in. A richly colored Dominion seedling. S. deep violet-purple; F. velvety black-purple. Large finely formed flowers. $1.00.

8.4 **Titan.** 36 in. A Dominion Seedling with flowers of enormous size. S. light violet-blue, broad and arching; F. violet-purple. $1.00.

8.5 **Valencia.** 30 in. A bright orange-buff, similar to the color of the Valencia orange. A very charming new color. $1.00.

8.9 **Vesper Gold.** 42 in. A new distinct yellow suffused with violaceous reflections. Bright orange beard. A beautiful Iris with arching standards and flaring falls. Strong growing. Late. $2.00.

8.9 **Wm. Mohr.** 26 in. One of the most remarkable Irises ever raised. The ground color is pale lilac, the standards flushed darker, and the whole flower is beautifully veined manganese-violet. The flower is of large size, has great substance and is of perfect form. $3.00.

8.7 **Yolande.** 40 in. A seedling of Souv. de Mad. Gaudichau of a wonderful shade of rich, velvety dark blue-purple. Very large flowers. $1.00.

### GOOD STANDARD VARIETIES AT BARGAIN PRICES

Price, any of the following: Each, 35c; 3 of one kind for 50c; 10 of one kind for $1.50; 25 of one kind for $2.50.

| | | | |
|---|---|---|---|
| **Archeveque.** | **Florentina Alba.** | **Moliere.** | **Rhein Nixe.** |
| **Caprice.** | **Grevin.** | **Monsignor.** | **Sherwin Wright.** |
| **Dejazet.** | **Lohengrin.** | **Quaker Lady.** | **Stormcloud.** |
| **Fairy.** | **Loreley.** | **Queen of May.** | **Zwanenburg.** |
| **W. J. Fryer.** | | | |

**Special Offer No. 86**

10 each of 5 good named varieties (50 plants), our selection, for **$3.00.**

IRISES—Continued

## TWENTY OF THE WORLD'S FINEST VARIETIES

9.2 **Ambassadeur.** 40 in. S. smoky bronze; F. dark velvety maroon. Voted by the American Iris Society the most popular Iris in the world. Late. 50c.
9.0 **Ballerine.** 48 in. One of the best of the light blue toned varieties. S. light violet-blue with waved edges; F. slightly deeper. Fragrant. 75c.
8.4 **B. Y. Morrison.** 33 in. A very popular bicolor. S. pale lavender-violet; F. horizontal, velvety purple with broad lavender border. 35c.
8.5 **Crusader.** 42 in. A very striking flower of brilliant clear blue. S. light blue; F. deep violet-blue; attractive orange beard. 35c.
8.4 **Dream.** 36 in. A very lovely, orchid-like flower of a soft clear pink. Of graceful Pallida habits, vigorous in growth and free flowering. 35c.
8.0 **Flammenschwert.** "Flaming Sword". 30 in. S. bright clear yellow; F. velvety brown with yellow border. One of the brightest Variegatas. 50c.
8.3 **Imperator.** 36 in. A large red toned Iris that adds a bright note to the garden. S. reddish-violet tinted buff; F. deeper shade. Late. 50c.
8.0 **Lady Byng.** 36 in. A beautiful Iris of exceptionally fine form and substance. Color a clear pale lavender with a slight suffusion of rose. 50c.
8.8 **Lord of June.** 40 in. S. flappy lavender-blue; F. rich violet-blue. Flowers exceedingly large and handsome; bold and vigorous habit. 35c.
8.7 **Magnifica.** 44 in. S. light purple on white; F. dark reddish purple. Flowers of heavy texture, measuring 6 inches high. Fragrant. 50c.
8.8 **Mlle. Schwartz.** 48 in. Lovely pale mauve flowers of exceptionally large size, borne on very tall branching stems. 50c.
8.4 **Medrano.** 30 in. S. and F. a beautiful dark smoky claret, a very rare color. Flowers of large size. Late. 35c.
8.4 **Mother of Pearl.** 48 in. A pale bluish lavender flower of exceptional substance and lustrous texture. A wonderful Iris; free flowering. 35c.
8.3 **Ochracea (Sunset).** S. dull old gold; F. coppery yellow, tinged with purple. Flowers of wonderful coloring and artistic form. Late. 50c.
9.0 **Princess Beatrice.** 40 in. A selected form of Pallida Dalmatica and one of the finest of all Irises. Silvery lavender of satiny texture. 50c.
8.1 **Prospero.** 48 in. A vigorous tall-growing variety bearing enormous flowers of fine shape. Similar to Lent A. Williamson but of lighter coloring. 50c.
8.8 **Queen Caterina.** 40 in. Pale lavender violet with a smooth iridescent sheen and bright orange beard. A beautifully colored Iris. 35c.
8.4 **Shekinah.** 36 in. Clear soft yellow, shaded deeper through the center. One of the finest of yellow Irises and the first of Pallida growth. 35c.
9.1 **Souv. de Mad. Gaudichau.** 40 in. This is without a doubt the most beautiful of all the deep purple Iris. Large flowers of rich velvety purple. 50c.
8.5 **Sweet Lavender.** 36 in. S. pale lavender; F. deep rose-lavender, very broad and horizontal. A lovely Iris with fine fragrance. Late. 35c.

### Special Offer No. 87A

One each Ambassadeur, Dream, Lady Byng, Lord of June, Medrano, Princess Beatrice, Prospero, Queen Caterina, Shekinah and Souv. de Mad. Gaudichau (value $4.25) for **$3.00**; 3 each for **$6.00.**

## TWENTY SPLENDID STANDARD VARIETIES

8.3 **Afterglow.** 36 in. Soft grayish-lavender shaded yellow at the center. 35c.
8.6 **Alcazar.** 40 in. S. bluish-violet; F. purple-crimson. Large and fragrant. 35c.
7.6 **Ben Bow.** 36 in. Deep violet-blue of Pallida form. Very fine color. 35c.
7.9 **Cecil Minturn.** 24 in. A beautiful flower of a soft shade of cattleya rose. 35c.
8.0 **Cluny.** 48 in. S. wisteria-violet; F. soft, bluish violet; large flowers. 35c.
7.6 **Dalila.** 24 in. S. pale flesh white; F. rich red-purple. Beautiful. 35c.
8.0 **Iris King.** 24 in. S. old gold; F. velvety crimson. Very rich coloring. 35c.
8.3 **Isoline.** 36 in. S. lilac-pink; F. purplish old rose. Handsome flowers. 35c.
7.8 **La Neige.** 24 in. Pure glistening ivory white with horizontal falls. 35c.
8.8 **Lent A. Williamson.** 42 in. S. violet; F. velvety royal purple; early. 35c.
7.5 **Mrs. Walter Brewster.** 36 in. S. lavender-blue; F. aniline-blue. Late. 35c.
7.9 **Neptune.** 42 in. S. bluish violet; F. violet. Large attractive flowers. 35c.
8.2 **Opera.** 28 in. S. reddish-purple; F. purple-violet. Wonderful coloring. 35c.
7.7 **Parc de Neuilly.** 30 in. Large, rich violet-purple self. Late. 35c.
8.6 **Prosper Laugier.** 36 in. S. fiery bronze; F. velvety ruby-purple. 35c.
7.4 **Raffet.** 30 in. S. violet; F. darker with velvety veinings. Very late. 35c.
8.0 **Rosalba.** 36 in. S. rich wine-red; F. deeper tone. 35c.
8.3 **Seminole.** 30 in. S. soft violet-rose; F. velvety crimson. Outstanding. 35c.
7.8 **Troost.** 30 in. S. rosy purple; F. lighter, veined violet. Bright pink effect. 35c.
7.9 **White Knight.** 24 in. A beautiful snow-white Iris; scented. 35c.

### Special Offer No. 87B

One each Afterglow, Alcazar, Ben Bow, Cecil Minturn, Iris King, La Neige-Lent A. Williamson, Mrs. Walter Brewster, Prosper Laugier and Seminole (value $3.50) for **$2.00**; 3 each for **$4.00.**

## JAPANESE IRISES (Kaempferi)

The last of the Iris Species to bloom and the most beautiful, their remarkable flowers, generally rather flat and wide, appearing in June and July. Plant in a sunny and moist location, but not where water will stand.

**Gold Bound.** Double. White with gold-banded center. Earliest to bloom.
**Kumochi-Guma.** A very full double of dark purplish indigo. Midseason.
**Mahogany.** Large double flowers of velvety-mahogany red. Late.
**Momigi-No-Taki (Maple Waterfall).** Bright rosy crimson feathered in white. D.
**Norma.** Exquisite silky lavender-pink. Fine large double. 75c.
**Purple and Gold.** An enormous double of rich violet-purple with gold center.
**Uchiu.** Cerulean blue, veined white; gold center. Blooms a long time. Double.
Price of above, except where noted, each 50c; 3 for $1.25; 10 for $3.75.
**Mixed Seedlings.** Each, 50c; 3 for $1.00; 10 for $2.50; 100 for $20.00; clumps, each. $1.00.

### Special Offer No. 87C

One each of the above 8 Japanese Irises for **$3.00**; 3 each for **$6.00.**

## VARIOUS IRISES

**Cristata (Crested Iris).** Early. A dainty dwarf creeping variety with large blue flowers. Fine for use in the rock garden. 35c; 3 for 75c; 10 for $2.00.
**Dorothy K. Williamson.** 33 in. A rich velvety royal purple flower of intense color. One of the finest beardless Irises. Plant in moist, well-drained soil. 75c.
**Pseudoacorus (Common Yellow Water Flag).** 48 in. Bright yellow. Fine for waterside planting. Will succeed where water stands or in dry locations. 35c.
**Pumila Hybrida.** Dwarf varieties, growing from 6 to 8 inches high, that bloom two weeks in advance of the German Iris. Suitable for rock gardens or borders.
**Cyanea.** Rich royal purple with black shading. Fragrant. 35c.
**Dixmude.** S. analine blue; F. rich crimson-purple. 50c.
**Orange Queen.** Clear deep yellow with orange beard. 50c.
**Versicolor (Common American Water Flag).** 24 in. Showy violet-blue, remaining in bloom for a long time. Good for waterside plantings. 35c.

## SIBERIAN IRISES

**Butterfly.** 36 in. Lovely porcelain blue flowers; vigorous grower. 50c.
**Emperor.** 48 in. Large flowers of a deep, rich violet-blue. Very fine. 50c.
**Perry's Blue.** 48 in. Large, well formed flowers of a beautiful shade of sky-blue. One of the most popular and finest of Siberian Iris. 50c.
**Orientalis.** 24 in. Rich deep purple. Fine for naturalized plantings. Each, 35c; 3 for 50c; 10 for $1.50; 100 for $10.00.
**Snow Queen.** 30 in. Large, ivory white with rich yellow blotch at the throat. 35c.

# Vaughan's Hardy Phlox

THIS is one of the most useful flowers for summer decorations. Once planted, they require no further attention for several years, but it is advisable to divide them about every fifth year.

The flowering period is from the early part of July to the middle of September and they grow to heights varying from 1 to 3 feet. Our list contains the finest of the new introductions. All Phlox supplied in one-year-old field roots except where noted.

**Baron Von Dedem.** Brilliant orange-scarlet with carmine eye. Immense trusses.
3 for $1.00; doz., $3.50; 100, $20.00.
**Beacon.** A very fine brilliant bright cherry red.
3 for $1.00; doz., $3.50; 100, $20.00.
**Bridesmaid.** Pure white with large crimson-carmine eye. 3 for 85c; doz., $2.50; 100, $15.00.
**Enchantress.** An improved Elizabeth Campbell. Light salmon pink with dark eye.
3 for $1.25; doz., $4.00; 100, $25.00.
**Goliath.** Bright light purple with a red eye. Strong and vigorous. 3 for $1.00; doz., $3.50; 100, $20.00.
**Hindenburg.** Conceded deepest red of all Phlox, large trusses and individual flowers.
3 for $1.50; doz., $5.00; 100, $35.00.
**La Vague.** Pure mauve with aniline-red eye.
3 for 85c; doz., $2.50; 100, $15.00.
**Le Mahdi.** Immense dark purple flowers, medium height. Has a tendency to bleach in strong sun.
3 for $1.50; doz., $5.00; 100, $35.00.
**Lord Raleigh.** Deep mauve. Blooms late. Choice.
3 for $1.25; doz., $4.00; 100, $25.00.
**Mia Ruys.** Dwarf, pure white, very large trusses. One of the best dwarf varieties.
3 for $1.50; doz., $5.00; 100, $35.00.
**Miss Von Lassberg.** The purest snow-white in cultivation. Large open truss, ideal as cut flower.
3 for 85c; doz., $2.50; 100, $15.00.
**Miss Lingard (Suffruticosa).** Pure white; the earliest of all. Blooms, good for cut flowers.
3 for 85c; doz., $2.50; 100, $15.00.
**Mrs. Chas. Dorr.** A tall, vigorous blue-mauve or lavender. 3 for 85c; doz., $2.50; 100, $15.00.
**Mrs. Jenkins.** Early variety of medium height producing immense panicles of pure white flowers.
3 for 85c; doz., $2.50; 100, $15.00.
**Mrs. Milly Von Hoboken.** Pure soft pink without eye, large flower on long erect stems.
3 for $1.50; doz., $5.00; 100, $35.00.
**Obergartner Wittig Midseason.** Enormous heads of large lilac-rose flowers with a lighter circle around a crimson eye. Medium height.
3 for $1.50; doz., $5.00; 100, $35.00.
**Rheinlander.** A rare shade of salmon-pink intensified by a distinct claret-red eye.
3 for $1.00; doz., $3.50; 100, $20.00.
**Riverton Jewel.** A lovely mauve-rose illuminated by a brilliant carmine-red eye.
3 for $1.00; doz., $3.50; 100, $20.00.
**R. P. Struthers.** Rosy carmine shaded orange-scarlet. 3 for $1.00; doz., $3.50; 100, $20.00.
**Salmon Queen.** A true, clear, salmon-pink of large size. Vigorous and robust grower.
3 for $1.50; doz., $5.00; 100, $35.00.
**Special French.** Beautiful blush pink with a salmon eye. Enormous flowers and trusses similar to Hydrangeas. Strong, tall grower.
3 for $1.50; doz., $5.00; 100, $35.00.
**Thor.** A lovely shade of deep salmon-pink suffused and overlaid with a scarlet glow. A splendid variety. Late with tall vigorous growth.
3 for $1.00; doz., $3.50; 100, $20.00.
**Von Hockberg.** Large size blood red blooms.
3 for $1.50; doz., $5.00; 100, $35.00.
**Widar.** Lilac blue with irregular white center.
3 for $1.00; doz., $3.50; 100, $20.00.
**MIXED.** 1 year field-grown plants of a choice mixture of colors. 3 for 65c; doz., $2.00; 100, $12.00.

### Collections

**Special Offer:** No. 87. One each of 10 varieties, our selection. All distinctly labeled for **$3.00**, prepaid.
**Special Offer:** No. 87A. One each of 6 varieties (six plants), our selection. Distinctly labeled for $1.90, postpaid.
**Special Offer:** No. 87B. Two plants each of 3 varieties (six plants), three distinct colors, our selection, for $1.75, postpaid.

### Dwarf and Alpine Phlox

Used in rock gardens, for ground covers, for borders and interplanting.

**Amoena.** Charming native variety, bright pink flowers. 6 in. April-May.
3 for 85c; doz., $2.50; 100, $15.00.
**Divaricata Canadensis.** A native species worthy of extensive planting. Blooms early April. Fragrant lavender flowers on stems 10 inches high. Prefer shade. 3 for 85c; doz., $2.50; 100, $15.00.

MISS VON LASSBERG

**Ovata (Carolina).** Rosy red flowers. 12 in. June-July. Same foliage as the late blooming sorts.
3 for $1.00; doz., $3.50; 100, $20.00.
**Subulata Alba.** Prostrate foliage, dainty white flowers in May and June, height 4 in.
3 for 85c; doz., $2.50; 100, $15.00.
**Subulata Lilacena.** Moss-like foliage of prostrate growth completely covered with pale lilac bloom in May and June. Height 4 in.
3 for 85c; doz., $2.50; 100, $15.00.
**Subulata Rosea.** Same as above, but with dainty pink flowers. This and Alba are fine for graves.
3 for 85c; doz., $2.50; 100, $15.00.
**Subulata Vivid.** Similar to Subulata Rosea but more dwarf in growth and most profuse bloomer of all types. Bright pink with fiery red eye.
3 for $1.00; doz., $3.50; 100, $20.00.

# Vaughan's Dahlias

IN THE following we offer what we consider the best of the Foreign and American Dahlias. We will supply **Pot-Grown Plants** of the newer varieties and strong roots of proper planting size as marked preceding the list of varieties. Pot plants we do not advise planting before **May 20th.** With good care and soil the pot plants make a good growth, brighter colored flowers and larger blooms, Please state if you want a substitute, should our supply of any variety become exhausted.

## Outstanding Dahlias of Late Introduction

**The following can be supplied in roots and plants. Pot plants ready about May 20th.**

BARBARA REDFERN. (Formal Decorative.) Color is a delightful blend of old rose and old gold, immense size and great depth, flowers borne on heavy stiff stems. A particularly free-bloomer, plants tall and vigorous. **Price,** each, $1.50. **Plants,** each, 75c.

BUCKEYE BRIDE. (Informal Decorative.) A truly great pink Dahlia. It is of Geranium pink, a rare and beautiful shade. The flower is large, is always held at a correct angle on the stem, and the stems are always long and perfect. It keeps well when cut. The heavy foliage successfully resists sucking insects and mildew. The vigor is high and uniform. **Price,** each, $5.00. **Plants,** each, $2.50.

CITY OF TRENTON. (Informal Decorative.) An autumn colored Dahlia defying adequate description. The face of petals, a rich glowing tangerine; reverse, crushed strawberry red. The petals curl gracefully, giving a two-toned effect A large exhibition bloom which can be grown to 12-inch diameter, **Price,** each, $1.50. **Plants,** each, 75c.

FORT MONMOUTH. (Semi Cactus.) The predominating color is a rich crimson maroon with a hue of bluish violet at tips of petals. The flowers are well formed, full centered, of true semi cactus type and immense size. Free bloomer and foliage is dark green. Flowers frequently 13 inches in diameter. **Price,** each, $2.00. **Plants,** each, $1.00.

JANE COWL. (Informal Decorative.) Deep massive bloom of bronzy buff and old gold, blending darker towards the perfect center. Broad petals with just enough twist to add the refinement so often lacking in the largest Dahlias. A stem of unusual strength holds this giant decorative over a bush of ideal growth, while the foliage is the thick leathery kind that insects seldom bother. **Price,** each, $1.50. **Plants,** each, 75c **(Illustrated in color on back cover).**

KATHLEEN NORRIS. (Informal Decorative.) Color a true Rose pink, later deepening to mallow pink but paler in the young central petals. A bloom of gigantic proportions, petals broad and overlapping with twisted ends, full, tight center. Foliage dark green and insect proof. A great bloomer and excellent keeper. **Price,** each, $5.00. **Plants,** each, $2.50.

KEMP'S VIOLET WONDER. (Informal Decorative.) The best violet colored Dahlia to date. The predominating color is a rich Napthaline Violet with underlying tone of royal purple, lightening to bluish violet at tips of petals with deep lavender reverse. The strong vigorous growing plants produce blooms of massive size on fine strong stems. **Price,** each, $2.00. **Plants,** each, $1.00.

MONMOUTH CHAMPION. (Formal Decorative.) Winner of special award at Elizabeth N. J., and as best undisseminated seedling at Red Bank, N. J., where it defeated some of the top notchers; it instantly found favor with all who saw it by its great size and brilliant flame color. It is the only Dahlia we know in its color. **Price,** each, $5.00. **Plants,** each $2.50.

ROBERT E. LEE. (Semi Cactus.) Color bright luminous cardinal red; reflex lighter, not only a 1929 Roll of Honor Dahlia but at Camden, N. J., in the open to all class, it won as the best red or crimson. It is not only a brilliant glowing red, but it does not burn or fade. The flowers are carried from facing to upright on cane stiff stems. **Price,** each, $5.00. **Plants,** each, $2.50.

THOMAS A. EDISON. (Formal Decorative.) This gorgeous new royal purple Dahlia has met with complete approval. The Staghorn petal formation, the dark green insect resistant foliage, the cane stiff stems and its thrifty growing habit of medium height leave nothing to be desired. Selected and named by permission of the famous electrical wizard. **Price,** each, $5.00. **Plants,** each, $2.50.

POMPON AND CACTUS TYPE

## Formal Decorative Dahlias

**The following can be supplied in roots only:**

CHAMPAGNE. A warm autumn shade. Copper to golden. A good exhibition Dahlia having huge blooms on long, stiff stems. **Price,** each, 50c.

CHARM. Burnt orange, shading to yellow; strong stems, free-flowering and a good keeper. **Price,** each, 50c. **(Illustrated in color on back cover.)**

ELLINOR VANDERVEER. A rich glowing satiny rose-pink. The large blooms are of great depth carried on long stems. An early bloomer and a fine cut flower. **Price,** each, 50c.

ELITE GLORY. One of the finest among the exhibition varieties. Produces giant flowers, thirteen inches and more in average soil. The blooms are a brilliant red borne on long, heavy stems. **Price,** each, $1.00.

ELITE PEACH. Exhibition blooms of salmon-buff held above a vigorous growing bush on fine strong stems. Its exceptionally lovely coloring attracts immediate attention at exhibitions. **Price,** each, 50c.

FORDHOOK'S CAPRICE. A lovely soft amaranth-pink shade suffused with silvery white. **Price,** each, 50c.

HOPE SLATER. Lemon yellow, medium size. Bloom carried on long strong stems. **Price,** each, 50c.

IMPROVED JACK ROSE. Bright crimson red with a touch of violet. **Price,** each, 50c.

JACK ROSE. Bright carmine-red over-laid violet, resembling the color of the rose of the same name. A splendid variety. **Price,** each, 35c.

JERSEY'S BEACON. The color is Chinese-scarlet with a paler reverse giving a two-toned effect. Flowers are very large and globular in form. It is a prolific bloomer and vigorous grower, **Price,** each, 75c. **(Illustrated in color on back cover.)**

JERSEY'S BEAUTY. Probably the most talked of dahlia during the past seasons. It is still in a class by itself. A perfect bloom of eosine pink, carried high above the foliage on a long, wiry stem. A perfect true pink. **Price,** each, 50c. **(Illustrated in color on back cover.)**

JERSEY'S WONDER. A mixture of apricot yellow with salmon suffusion on the reverse. **Price,** each, 75c.

JUDGE ALTON B. PARKER. A coppery salmon with a golden hue. A large, perfect flower the entire season; fine stems; good for all purposes. **Price,** each, 50c.

MR. CROWLEY. A plant of dwarf habit having blooms of a glowing salmon-pink with yellow at the base of the petals. **Price,** each, 50c.

MRS. CARL SALSBACK. A strong, vigorous grower, color a lively shade of solferino-pink with white suffusion which intensifies its color. **Price,** each, 50c.

MRS. IDE VER WARNER. One of the best known of recent introduction and it is truly a remarkable Dahlia. It is a refined mauve pink, beautifully formed, exquisite shade. Large blooms carried on long, strong wiry stems, flowering early and continues to produce quantities of them until the end of season. **Price,** each, 35c. **(Illustrated in color on back cover.)**

PEGGY ROLAND. Salmon pink with orange yellow and gold blending. Large flower on strong stems. **Price,** each, 75c.

QUEEN OF THE GARDEN BEAUTIFUL. One of the largest of all Dahlias. Measures from nine to twelve inches across, grown without forcing. It is a gigantic lemon-colored decorative with stems that are unusually strong, the blooms are wonderful keepers. **Price,** each, 75c.

**Formal Decorative—Continued**

POLAR BEAR. A pure white of splendid form which will stand the sun. Good stems and splendid keeping qualities. One of the best commercial whites. Very popular in this country, **Price,** each, 50c.

SAGAMORE. An exceptionally fine exhibition or cut flower of a golden color, shaded toward the center with warm salmon-rose or orange-buff. Stems straight and stiff and wonderful keeping qualities when cut make this flower most desirable. **Price,** each, 50c. **(Illustrated in color on back cover.)**

STORM KING. Pure white, free bloomer, plant covered with flowers. **Price,** each, 50c

THE GRIZZLY. Gives large, finely formed flowers on good stems. In color a rich crimson shaded maroon. **Price,** each, 50c.

WANDA MILLER. Color is a deep purple with white tips, never sporting to solid color. Medium sized flowers held erect on strong stems. **Price,** each, $1.00

SPECIAL OFFER No. 88. One each Ellinor Vanderveer, Elite Peach, Improved Jack Rose, Mr. Crowley, and Storm King, postpaid to 5th zone, for $2.00.

SPECIAL OFFER No. 88A. One each Charm, Jack Rose, Jersey's Beauty, Mrs. Ide Ver Warner, Polar Bear, and Sagamore, postpaid to 5th zone, for $2.00.

## Informal Decorative Dahlias

**The following can be supplied in roots only:**

ALEX WALDIE. Large flowers of a creamy color overlaid with a delicate salmon-pink. The blooms held well above the foliage. **Price,** each, 35c.

ALTEMONT. Beautiful rose pink with darker shadings. **Price,** each, 75c.

AMULET. A deep clear brown slightly suffused gold and old rose. Flowers are large and deep with center which remains closed. **Price,** each, 75c.

AVALON. Pure, clear yellow. The large flowers are very distinct and pleasing in shape, always full to the center and produced in great abundance on strong stems. A remarkably good keeper when cut. **Price,** each, 75c. **(Illustrated in color on back cover.)**

BASHFUL GIANT. Apricot with golden shadings. One of the largest Dahlias produced, excellent for exhibition purpose. Flowers produced on strong stems. **Price,** each, 50c.

CARDINAL MUNDELEIN. Glowing cardinal red. Iridescent. Flowers very large on stems strong enough to hold the flower under all conditions. The petals are twisted giving the flower a distinct and refined appearance. The foliage is leathery and glossy, making it remarkably resistant against insects and disease. **Price,** each, $1.00.

CATHERINE WILCOX. White, points of petals, tipped cerise. **Price,** each, 35c.

CLAUDE HARLAN. Large flower of a beautiful, clear lavender. The petals have a soft wavy appearance, which makes the flower very delicate and beautiful. **Price,** each, 50c.

CONCHITA. Silvery cerise-rose. The formation of this large deep flower is irregular enough to be charming. Stems are long and stiff holding the blooms well above the moderately tall plant. **Price,** each, 50c.

COURONNE D'OR. Color is a rich bronzy apricot edged gold. Large flowers produced upright on long stems. **Price,** each, 75c.

DR. TEVIS. Bronzy old gold shaded and suffused violet rose. Fine exhibition flowers borne on erect stems. **Price,** each, 50c.

EARL WILLIAMS. This is a giant-flowering dahlia attaining 12 inches in diameter, color brilliant scarlet and white variegated. **Price,** each, 75c.

JEAN KERR. Pure white, of a fine form, a profuse bloomer on stiff stems. Fine cut flower variety. **Price,** each, 35c.

JERSEY CAPRICE. A glorious autumn shade. Very large flower on fine stem. **Price,** each, 50c.

JERSEY'S KING. A favorite in a begonia-rose color with a distinct form, the petals being broad and rounded at the tips. A variety which attracts much attention because of its color. **Price,** each, 75c.

JERSEY'S MASTERPIECE. Large exhibition flower of soft strawberry pink, suffused gold at base of florets. Excellently formed, and on stems of great strength. Thick leathery foliage which is very attractive. **Price,** each, 75c.

JERSEY'S SOVEREIGN. Salmon orange of good size on strong stems. **Price,** each, 75c.

JUDGE MAREAN. A very large flower of perfect shape. The colors changing as the flowers pass through different stages of development, are a combination of glowing salmon-pink, red, iridescent orange, yellow and gold, all blending most harmoniously. It is an early and continuous bloomer with long, perfect stems. **Price,** each, 75c.

**Informal Decorative Dahlias**—Continued

**MARGARET WOODROW WILSON.** Face of petals creamy white, reverse Phlox-pink. Petals broad and well placed, terminating in points, strong upright stems dark green foliage. Medium height bush. **Price,** each, 50c.

**MARMION.** It is a pure golden yellow with a bronze suffusion on the reverse of the petals. The flowers are massive and have a great depth. The form enhances the beauty of the flowers as the florets are long and wavy and are produced very freely on long cane-like stems. **Price,** each, $1.00.

**MINA BURGLE.** Flowers of gigantic size. A most glowing brilliant scarlet. **Price,** each, 35c.

**MRS. C. H. DRESSELHUYS.** A soft rose pink. Blooms carried on long stiff stem. Strong grower. **Price,** each, 35c.

**MRS. ELEANOR MARTIN.** The coloring is unique, different from all others. A beautiful mulberry with golden suffusion. The form is of best exhibition type. Very large flowers can be grown to ten inches in diameter on stiff long stems. **Price,** each, 75c.

**POP STEWART.** Rose and lilac-pink blooms produced freely on stiff stems. A clean grower. **Price,** each, 50c.

**PRIDE OF CALIFORNIA.** Dark, rich crimson of pleasing form and large size. Flowers held erect on splendid stems. **Price,** each, 35c.

**PRIMULA REX.** Clear primrose color. Fine form and distinctive appearance. **Price,** each, 75c.

**PURPLE KING.** A deep purple of medium size, early and profuse bloomer. Flowers carried well above foliage on wiry stem. **Price,** each, 50c.

**ROSA NELL.** Pure bright rose, so rich, strong and rare that in color it stands alone. Strong stem and good keeping qualities. **Price,** each, 50c.

**SANHICAN'S BLUEBIRD.** The color is a most uncommon shade. The outer petals at maturity are bright violet-blue, while the center retains the violet tint, the nearest approach to a Blue Dahlia, the whole forming an uncommonly handsome flower. **Price,** each, $1.00. **(Illustrated in color on back cover.)**

**SYLVIA.** White, shading to soft pink on the outer petals. **Price,** each, 35c.

**THE LEMONADE.** Clear lemon-yellow, stiff upright stems, good habit of growth and an excellent keeper when cut. **Price,** each, 75c.

**THE MILLIONAIRE.** Very large regular decorative form. Lavender-pink tinting to white at center. **Price,** each, 50c.

**WIZARD OF OZ.** Immense size on rigid stems. Amber pink shaded salmon. Strong vigorous grower and free-bloomer. One of the best **Price,** each, 50c.

**SPECIAL OFFER No. 89.** One each Catherine Wilcox, Jean Kerr, Pride of California, and Sylvia, postpaid to 5th zone, for $1.00.

**SPECIAL OFFER No. 89A.** One each Jersey's Masterpiece, Margaret Woodrow Wilson, Mina Burgle, Purple King, and Rosa Nell, postpaid to 5th zone, for $2.00.

## Semi Cactus Dahlias

**The following can be supplied in roots only:**

**ALICE LONGFELLOW.** A blending of shrimp pink shading to pale gold at center, each petal tipped with pale pink. **Price,** each 35c.

**ALICE WHITTIER.** This splendid variety is a very delicate shade of primrose-yellow. The flowers are immense in size for a Cactus with good strong stems. **Price,** each, 75c.

**AMBASSADOR.** The sensation Dahlia since its introduction. Its color is a soft yellow at the center with salmon, amber and pink shadings, gradually deepening toward the tips and outer floral rays. **Price,** each, 75c.

**CIGARETTE.** In color it is creamy white, heavily edged with pomegranate-red, but it varies greatly, no two flowers being exactly alike. **Price,** each, 50c.

**EAGLE ROCK BEAUTY.** A more beautiful combination of pink and cream than is displayed in this glorious creation would be difficult to imagine. Vigorous in growth with good habit and stems. **Price,** each, 75c.

**ELSIE DANIELS.** Creamy white shading to a lilac-pink on outer row of petals. The low-growing bushes are producers of large flowers on straight stiff stems. **Price,** each, 50c.

**F. W. FELLOWS.** Flowers of immense size composed of numerous long, narrow incurved petals of a lively orange-scarlet. **Price,** each, 50c.

**GLADYS SHERWOOD.** Pure white produced on strong stiff cane stems. **Price,** each, 50c.

**ISLAM PATROL.** Deep scarlet tipped gold. A very striking flower on long stiff stems. **Price,** each, 50c.

**ISMALIA.** Dark velvety maroon. **Price,** each, 50c.

**JACK'S DISCOVERY.** White mottled with violet-rose. Flowers of medium size are borne on stiff stems. **Price,** each, 50c.

**JERSEY'S MAMMOTH.** Color a rich golden mahogany. The largest of the Jersey family, having frequently reached fourteen inches in diameter. **Price,** each, 75c.

**Semi Cactus Dahlias**—Continued

**JERSEY'S RADIANT.** An exceptionally appropriate name; a radiant Dahlia of bittersweet orange, produced on long, stiff stems held well above the foliage. **Price,** each, 75c.

**MARIPOSA.** A delightful shade of true pink which is intensified by a deeper center. A faint violet suffusion adds to the effect. Blooms early and continues in good shape to the end of the season. **Price,** each, 50c.

**NIBELUNGENHORT.** A giant plant producing giant blooms of a rich golden apricot suffused with old rose. It is a good exhibition variety and does well everywhere. **Price,** each, 50c.

**PAPILLON.** A highly rated cactus Dahlia. It is of beautiful formation and coloring, being a blend of old rose and gold. **Price,** each, 75c. **(Illustrated in color on back cover.)**

**SPECIAL OFFER No. 89B.** One each of the above 16 Dahlias in strong roots, postpaid to 5th zone, for $8.00.

**SPECIAL OFFER No. 89C.** One each Alice Longfellow, Islam Patrol, Ismalia, Jersey's Radiant, and Mariposa, postpaid to 5th zone, for $2.00.

## Straight Cactus Dahlias

**The following can be supplied in roots only:**

**ATTRACTION.** Large, elegant flower of a clear lilac-rose, borne on long stiff stems and a Dahlia of exceptional merit. A true peony-cactus type. **Price,** each, 50c.

**BERTHA HORNE.** Deep orange yellow tinted with apricot, the later color predominating in many of the flowers. **Price,** each, 75c.

**COUNTESS OF LONSDALE.** A delicate apricot shading towards the edges of the petals to carmine-pink. Early and one of the very best. **Price,** each, 35c.

**ELITE GEM.** A true American Cactus of fine form. Free-blooming on strong stiff stems. Color, spinel pink blush on primuline yellow at base; reverse of petals, rosaline purple exceedingly attractive. **Price** each, 75c.

**ESTHER HOLMES.** A deep lavender-pink. One of the best of the hybrids for cut flowers. Blooms freely, produced on long, stiff stems. **Price,** each, 50c.

**ESTHER HUNT.** Produces a vivid orange-colored flower which makes a striking display. The blooms are composed of long, well-rolled petals serrated at the tips. Good stems. **Price,** each, 50c.

**GLADYS BATES.** Very large perfect flowers, with incurved petals of a golden salmon, the reverse of the petals being rose, the two colors giving the effect of a golden old rose. **Price,** each, 50c.

**J. H. JACKSON.** A perfect gorgeous deep, velvety, blackish maroon. Gigantic in size. Every Dahlia lover should grow this variety. **Price,** each, 35c.

**MRS. ETHEL F. T. SMITH.** Creamy white shading to a lemon tint at the center. Immense flowers produced freely on long, stiff stems. **Price,** each, 35c.

**PROFUSION.** One of the very best, pure white Cactus, of largest size; fine form; a profuse bloomer on good stiff stems. **Price,** each, 50c.

**SUN MAID.** Color is a beautiful soft blending of orange and gold. The flowers have great depth and are held erect on strong, stiff stems. **Price,** each, 50c.

**WASHINGTON CITY.** Snow-white, of beautiful form and borne on long stems. Very large flowers. **Price,** each, 50c.

**SPECIAL OFFER No. 89D.** One each of the above 12 Dahlias in strong roots, postpaid to 5th zone, for $5.00.

**SPECIAL OFFER No. 89E.** One each Bertha Horne, Countess of Lonsdale, Esther Hunt, J. H. Jackson, and Mrs. Ethel F. F. Smith, postpaid to 5th zone, for $1.75.

## Peony-Flowered Dahlias

**The following can be supplied in tubers only:**

**AVALANCHE.** A splendid pure white. An early and free bloomer. **Price,** each, 25c.

**CAMILLE FRACHON.** Color an intense aniline red deepening to a rich garnet. Very effective. **Price,** each, 35c.

**JAN OLIESLAGERS.** Deep primrose-yellow; very large and free-flowering. **Price,** each, 25c.

**MAD. PAUL AUBREY.** A distinct and desirable Peony form. In color a beautiful, rich deep mauve-pink. The outer petals are broad and flat, the center petals quilled and rolled toward the center. **Price,** each 50c.

**QUEEN WILHELMINA.** This is a splendid variety of this new type with immense pure white flowers, with yellow center. **Price,** each, 25c.

**TYRREL AUSTIN.** Outer petals a rich carmine-red, inner petals beautifully blended and veined carmine, shades of yellow and pink. **Price,** each, 25c.

**SPECIAL OFFER. No. 89F.** One each of the above 6 Dahlias in strong roots, postpaid to 5th zone, for $1.25.

## Pompon Dahlias

Under this head come those small Bouquet Dahlias that are so popular for cut flowers.

**The following can be supplied in roots only:**

**BACCHUS.** Bright scarlet. **Price,** each, 35c.

**CATHERINE.** Bright yellow. Good form and stem. **Price,** each, 35c.

**EUREKA.** Yellow shading to bronze. **Price,** each, 35c.

**GRETCHEN HEINES.** Rose tinted white, each petal heavily tipped crimson-carmine. **Price,** each, 35c.

**JANET.** Glistening golden bronze. **Price,** each, 35c.

**JOE FETTE.** Pure white, excellent for cutting. **Price,** each, 35c.

**LASSIE.** Yellow base, shading to carmine at tips. **Price,** each, 35c.

**LITTLE HERMAN.** Deep red, tipped white; very free. **Price,** each, 35c.

**LITTLE IRENE.** Light yellow. **Price,** each, 35c.

**NELLIE FRAZER.** Light ground tipped rose. **Price,** each, 35c.

**SNOWCLAD.** The best pure white pompon. **Price,** each, 35c.

**YELLOW GEM.** A perfect neat, bright yellow. **Price,** each, 35c.

**SPECIAL OFFER No. 89G.** One each of the above 12 Dahlias in strong roots, postpaid to 5th zone, for $3.50.

## Century or Single Dahlias

This giant-flowering type of single Dahlias are now very popular both for garden decoration and for cutting.

**The following can be supplied in roots only:**

**AMERICAN GEM.** On compact bushy plants two feet high are borne many single blooms two to four inches in diameter of a brilliant geranium red with a heavy cluster of deep yellow stamens in the center. Beginning to bloom early and continues until frost constantly improving in quality and number. Ideal for cut blooms, flower beds or border planting. **Price,** each, 50c; doz., $5.00; per 100, $25.00.

**GOLDEN CENTURY.** A rich golden yellow suffused with amber. **Price,** each, 25c.

**MAROON CENTURY.** Beautiful rich maroon, large yellow center. Erect, free-flowering. **Price,** each 25c.

**PINK CENTURY.** Delicate soft pink. A profuse bloomer. Strong and vigorous with fern-like foliage. **Price,** each, 25c.

**SCARLET CENTURY.** Brightest dazzling scarlet, golden disc. Immense flowers of fine round form, very profuse in flowering. **Price,** each, 25c.

**WHITE CENTURY.** A profuse bloomer and a strong grower. **Price,** each, 25c.

**SPECIAL OFFER No. 89H.** One each of the above 6 Dahlias in strong roots, postpaid to 5th zone, for $1.25.

## Show Fancy Dahlias

**The following can be supplied in roots only:**

**A. D. LIVONI.** A beautiful soft pink flower with quilled petals. **Price,** each, 35c.

**ANNA REHORST.** A deep shade of purple. Strong stem. **Price,** each, 35c.

**D. M. MOORE.** Rich dark velvety maroon shaded black; fine form. **Price,** each, 50c.

**DREER'S WHITE.** Glistening white of good form. Free-flowering. **Price,** each, 35c.

**ELSIE BURGESS.** Lavender-pink, of good size and form. A general favorite. **Price,** each, 35c.

**GOLD MEDAL.** A Dahlia with autumn coloring, deep yellow, regularly striped and tipped dark crimson. A striking flower. **Price,** each, 50c.

**MAUDE ADAMS.** The color is a pure snowy white, very effectively overlaid clear delicate pink. **Price,** each, 35c.

**MRS. JOHN BOWMAN.** Large, golden yellow. Free bloomer with long, strong stems. Extra good for cutting. **Price,** each 50c.

**YELLOW DUKE.** A splendid primrose yellow of good form and strong stem. **Price,** each, 35c.

**SPECIAL OFFER No. 89K.** One each of the above 9 Dahlias in strong roots, postpaid to 5th zone, for $3.00.

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**UN-NAMED DOUBLE DAHLIAS.** Undivided field clumps in white, pink, yellow, red or variegated, good sorts. Price, each, 35c; doz., $3.00, by express.

**MIXED SINGLE AND DOUBLE DAHLIAS.** Undivided field roots. Price, each, 25c; doz., $2.50, by express.

**DAHLIA TUBERS.** In white, pink, yellow, red or variegated. Price each, 15c; doz., $1.50, postpaid

# POT GROWN Garden Roses

**All Varieties Marked With (*) Can Be Had 2-Year Field-Grown, Dormant Plants at 20c Less Than Pot Plant Prices as Noted. Potted Roses Are Not Ready for Shipment Until May.**

FOR spring planting we recommend pot-grown rose plants. The plants you receive are in full leaf, probably in bud, with roots growing naturally in a ball of soil. Plant them in well prepared rose soil about 6 inches deeper than they were in the pots and water very thoroughly.

Our potted roses are in 5- or 6-inch pots, from 2 to 3 feet tall, with 2 to 5 canes, depending on the variety. Potted plants are not ready for shipment until May.

**Dormant Plants.** Some may prefer dormant plants for the following reasons: They may be planted earlier, they may be shipped by parcel post rather than by express, at a substantial saving where the distance is considerable. We will supply dormant plants of No. 1 grade, two years old, of all varieties listed below and marked *, for 20 cents less each, and $2 less per dozen, than the price for potted plants. Postage, 5c per plant.

## Dwarf Polyantha Roses

These are entirely distinct from the larger flowered sorts, as flowers are borne in clusters of from 10 to 25 individual flowers. If planted in masses of 25 or more together, will make a very effective border or bed.

*CECILE BRUNNER. (The Sweetheart Rose). The charm of this variety is in its beautifully proportioned buds and half open flowers. Soft, rosy pink on a background of creamy white.

*CRIMSON BABY RAMBLER. Still a favorite. Flowers in clusters of 30 to 40; the foliage dark and glossy. A large bed in our grounds was constantly in bloom until November, even in the hottest weather.

*IDEAL. An intense rich lustrous garnet. The flowers are not large but are produced in very large trusses and are very effective.

*ORLEANS ROSE. Brilliant geranium-red, suffused rose and deep cerise. Bushy habit; grows and blooms freely; florets not crowded, but of beautiful arrangement and most lasting quality with their stiff, paper-like texture.

**Price** of the above roses, from 5-inch pots, each, $1.00; doz., $11.00; 100, $85.00.

**Pot grown roses shipped by express, collect.**

## The Planting and Care of Roses

With all orders we include a small leaflet, directions for planting and growing. Roses are probably the most popular flower. With a little care and attention it is possible to secure good results in the Middle West.

## New Hybrid Tea Introductions

This class commonly known as monthly roses, blossom continuously. In severe winter climate they need complete protection. All plants of novelties are No. 1 grade; 2-year.

*DAME EDITH HELEN. (A. Dickson & Sons, 1926.) A clear pink rose of large size and full petaled. Strong and active in growth, giving an abundance of fine big blooms. Buds are shapely and substantial, opening to superb clear pink flowers. Each, $1.25. **(Illustrated on 3rd cover page.)**

*EDITH NELLIE PERKINS. (A. Dickson & Sons, 1928). A unique rose of many pastel shades. Buds long and pointed petals cream and blush and salmon pink shaded to golden orange at base. Robust growth and produces flowers in abundance. Each, $1.50.

*E. G. HILL. (E. G. Hill Co., 1929.) A new red rose of striking form and color. Long, perfectly formed buds opening to high centered, full double flowers of dazzling scarlet, shading to deeper red as they develop. Free flowering, vigorous. Each, $1.50.

GOLDEN DAWN. (P. Grant, 1929.) A light lemon shade of Australian origin and possessing many fine points. Buds show crimson markings before opening and develop into fine shaped, full double, exquisite lemon yellow blooms. Glossy, healthy foliage, free flowering and of vigorous branching growth. Each, $1.50.

*IMPRESS. (A. Dickson & Sons, 1930). A many colored rose of great charm. Buds show cardinal red in unfolding with orange suffusion. The perfectly shaped, large double blooms are salmon cerise, suffused a luminous golden sheen. Very free flowering. Each, $2.00.

*JOANNA HILL. (J. H. Hill Co., 1928.) A new yellow rose with an orange heart. Vigorous in growth, and blooms are borne singly on long, strong stems. The buds are large and long pointed. A vigorous habit of growth shows it will be of merit as a bedding rose. Each, $1.50.

*MRS. A. R. BARRACLOUGH. (McGredy & Son, 1926.) A large pink rose with clear light yellow shading at base of petals. Beautifully formed and unusually fragrant. It is a good bedding rose, being of large size, fine color and good shape. A splendid bloomer and vigorous grower. Each, $1.50. **(Illustrated on 3rd cover page.)**

*MRS. ERSKINE PEMBROKE THOM. (Howard & Smith, 1926.) An unfading yellow with dark healthy foliage. Slender yellow buds opening to well shaped canary yellow blooms, deepening in the center. A satisfactory rose for bedding on account of its fine foliage, heavy growth and wealth of bloom. Each, $1.25. **(Illustrated on 3rd cover page.)**

*MRS. LOVELL SWISHER. (Howard & Smith, 1926.) A gorgeous salmon pink and gold rose, tinted flesh pink at edges of petals. Notable for size and beauty of blooms, also free habit of growth. Color is mainly pastel shades but desirable for contrast against the more vivid varieties. Each, $1.25. **(Illustrated on 3rd cover page.)**

*PRESIDENT HERBERT HOOVER. (L. B. Coddington, 1930.) A charming many colored rose. Deep copper red buds of fine form, opening to a lovely blending of orange yellow, flame, vivid rose-pink, and scarlet. Buds of superb shape, flowers large, and fragrant. A dazzling color effect to delight the eye. Each, $2.25.

*TALISMAN. (Montgomery Co., 1929.) A remarkable blending of gold, apricot, yellow, deep pink, and old rose. The rose of many Gold Medals. The outside of the petals is bright yellow, gold and pink; unfolding they become bright apricot, gold and deep rose pink. As the bloom ages these colors become brighter. Glossy green foliage and free flowering. Each, $2.00. **(Illustrated on 3rd cover page.)**

# Hardy Climbing Roses

Climbing roses have been constantly in demand, for vines are needed to decorate every home and when such also produce roses, the pleasure is magnified many fold. They are used as screen planting and in borders or for beautifying the unsightly; for ornamenting terraces, banks, rockeries, old stumps or boundary fences; and for covering archways, arbors, pergolas and summer-houses.

## New Climbing Roses

THE NEW DAWN. Introduced in 1931. The first patented rose and the first everblooming climbing rose. A sport from Dr. Van Fleet having same habit of growth. The delicate flesh pink flowers are fragrant and open to large blooms. The foliage is a bronze green and it is a strong, vigorous grower. This unique rose is covered by U. S. Patent and blooms all summer and fall. Price 2 year pot grown $2.50 each; 2 year Dormant $2.00 each.

*CHAPLIN'S PINK CLIMBER. Introduced in 1928, winning highest place in English National Rose Society's Spring Show. Lively pink blooms in clusters of 8 to 12 large and shapely flowers. A strong grower and excellent climber. One of the best new climbing roses. Price 2 year pot grown, $1.50.

*MME. GREGOIRE STAECHELIN. This new variety is the aristocrat of the climbing roses. Its beautiful flowers are of enormous size and are followed by attractive fruits as large as small seckle pears. The blooms are unmatched, being of an iridescent pearl-pink, splashed with carmine. Delightfully fragrant. Hardy vigorous grower with large, disease-resistant foliage. Pot grown. Each, $1.50.

*PRIMROSE. A pure yellow, hardy climbing rose. Its large, double flowers are a soft, rich primrose yellow, and are borne in clusters of 4 and 5 on an extremely vigorous plant, with beautiful foliage. Very new and we believe the most satisfactory yellow climber for the north. Pot grown. Ea., $1.50.

*AMERICAN PILLAR. Large, flowers of bright crimson, with a clear white eye surrounding numerous golden yellow stamens. These flowers fade to an agreeable light pink and are in great clusters.

*CLIMBING AMERICAN BEAUTY. A free-climber. Rosy crimson flowers, 3 to 4 inches across, produced freely in June and occasionally throughout the season. Very fragrant.

*CLIMBING BABY RAMBLER. Scarlet flowers in clusters, dark foliage. A reliable variety.

*CRIMSON RAMBLER. Scarlet red flowers borne in sprays. Vigorous grower. One of the best for covering a trellis, porch or unsightly fence.

*DOROTHY PERKINS. Beautiful shell-pink double flowers in large clusters. Strong, vigorous grower, attaining a length of 20 feet in one season.

*DR. W. VAN FLEET. The delicate flesh-pink flowers are full and double, of immense diameter; sweetly perfumed; beautiful bronze green foliage.

*EUGENE JACQUET. The earliest of all the climbers. Fragrant cherry-red flowers; handsome dark green foliage.

*EXCELSA. Flowers very double, produced in large trusses, thirty to forty on a stem; intense crimson maroon. Vigorous.

*FLOWER OF FAIRFIELD. Its flowers, produced in profusion, are of a fine crimson color, more lasting and brilliant than the common Crimson Rambler.

*GARDENIA. Buds yellow, creamy-white flowers with yellow centers. Vigorous and very hardy.

*SILVER MOON. Large creamy buds, produced in small sprays. Plant vigorous, growing 15 to 20 feet in season. A great cover.

*MARY WALLACE. Pillar rose type. Makes a fine, strong, self-supporting rose 5 to 8 feet high with large, glossy foliage. Flowers well formed, semi-double, bright, rose-pink with salmon base.

*PAUL'S SCARLET CLIMBER. A most important addition to the Climbing Roses; none can compare with it for brilliancy of color, which is a vivid scarlet. A strong climber and perfectly hardy.

CLIMBING AMERICAN BEAUTY

*SEVEN SISTERS. Double crimson flowers in clusters. Very hardy and vigorous.

*WHITE DOROTHY. A white form of Dorothy Perkins. Large clusters of double white flowers.

**Prices of above Hardy Climbing Roses:** (Except the 4 new climbers listed at left.) From 5-inch pots, each, $1.00; doz., $11.00; 100, $85.00.

**SPECIAL OFFER NO. 90.** Any 6 of the $1.00 pot grown Hardy Climbing Roses, for $5.50.

# Hybrid Tea Roses

**All Varieties Marked With (*) Can Be Had 2-Year Field-Grown, Dormant Plants at 20c Less Than Pot Plant Prices as Noted. Potted Roses Are Not Ready for Shipment Until May.**

These Hybrid Tea Roses include the best of the outdoor bedding varieties. They possess the hardiness of the hardy Perpetual Roses and the free blooming habits of the Tea Roses. They are the most popular and useful of all Roses, supplying an abundance of beautiful flowers clear up to severe freezing weather. In severe winter climates they need complete winter protection. All are from 5 or 6 inch pots, from 2 to 3 ft. tall with 2 to 5 canes, depending on the variety.

*GENERAL MACARTHUR. Rich crimson-scarlet, well-shaped flowers and very fragrant. Good disease-resistant bedding rose. Each, $1.00; doz., $11.00. **(Illustrated on 3rd cover page.)**

*GRUSS AN TEPLITZ. Rich scarlet shading to crimson, very fragrant. A vigorous grower and in bloom all the time. One of the best outdoor bedding varieties. Each, $1.00; doz., $11.00. **(Illustrated on 3rd cover page.)**

*HADLEY. Large full blooms, rich velvety crimson-scarlet. Very fragrant. Strong grower and free blooming. Each, $1.25; doz., $14.00. **(Illustrated on 3rd cover page.)**

*KAISERIN AUGUSTE VICTORIA. Well formed creamy buds developing slowly to snowy white blooms of perfect form. One of the best white roses for outdoors. Each, $1.25; doz., $14.00. **(Illustrated on 3rd cover page.)**

*LADY HILLINGDON. A beautiful coppery shade of apricot-yellow. A strong, vigorous grower and very free-flowering. Each, $1.25; doz., $14.00.

*MARGARET McGREDY. Comparatively new and is a striking variety. Large Oriental red blooms, rich in color and of vigorous, bushy growth. Each, $1.25; doz.,$14.00.

*MME. BUTTERFLY. A glorified sport of Ophelia with all the colors of Ophelia intensified, making it a harmony of bright pink, apricot and gold. A free-grower and bloomer with large, handsome foliage free from mildew. Each, $1.25; doz., $14.00. **(Illustrated on 3rd cover page.)**

*MME. CAROLINE TESTOUT. Large flowers of satin rose, shaded lighter towards the edges of enormous petals. A persistent bloomer. Each, $1.25; doz., $14.00.

OPHELIA. A delicate tint of salmon-flesh shaded with rose. The flowers are held erect well above the foliage and in great profusion all summer. Each, $1.25; doz., $14.00.

*RADIANCE. Brilliant rosy carmine, shaded with pink, large, full, of fine form. A constant bloomer and an excellent keeper in summer. Each, $1.00; doz., $11.00. **(Illustrated on 3rd cover page.)**

*RED RADIANCE. Flowers clear cerise-red. Size, foliage, growth and habit same as in the parent Radiance. A fine variety for outdoor planting. Each, $1.00; doz., $11.00.

*SOUVENIR DE CLAUDIUS PERNET. Flowers sunflower-yellow, unfading even in the warmest weather; foliage brilliant green. It was awarded the Gold Medal at the Bagatelle Garden trials in 1920 and in the same year also received Gold Medals at the Rose Show in Paris and Antwerp. Each, $1.25; doz., $14.00. **(Illustrated on 3rd cover page.)**

*SUNBURST. The color is intense orange-copper and golden yellow. Buds, long and pointed, opening full and double. Each, $1.00; doz., $11.00.

POT GROWN ROSES. The advantages of pot grown Roses are not generally known. Dormant Roses are planted late in Fall or very early in Spring and must be tended carefully until roots are established. Climatic conditions in the Middle West are not always favorable and the pot grown Roses have a better chance of growing and blooming.

# Hardy Hybrid Perpetual Roses

Among garden lovers no hardy plants are so generally popular as the Hybrid Perpetuals, often called June Roses. Once established they are strong and hardy growers, bearing large globular flowers. While severe weather does not kill them, some protection in the way of a moderate covering of rotted straw, light manure or leaves is very advantageous, and necessary near and north of Chicago.

ROSES demand reasonably free watering, and frequent spraying with Hellebore and Bordeaux Mixture for insects and fungi will be found beneficial. They thrive best with application of manure water, and at least two applications of bone meal (two pounds per square yard) prior to blooming time. Roses in general do not like to be near trees and shrubs so are grown by themselves.

*FRAU KARL DRUSCHKI (WHITE AMERICAN BEAUTY). Pure white, long, immense buds and perfectly double flowers. For bedding and for cutting it is the finest in its class.

*GEN. JACQUEMINOT. Bright shining crimson, shapely buds, fragrant. The Jack Rose is noted for its good qualities.

*GEORG ARENDS. Pointed buds and blooms of pure soft pink, delicately perfumed. Very vigorous grower with good foliage.

*J. B. CLARK. Robust in growth, with clean heavy foliage. Flowers are large, deep scarlet, overlaid crimson.

*MAGNA CHARTA. An old favorite. Very double flowers, bright pink suffused carmine and heavily perfumed. Strong grower. Profuse bloomer.

*MRS. JOHN LAING. Very free-flowering, commencing to bloom early in the season and continues to bloom profusely until late autumn. A soft delicate pink with a satiny sheen; very fragrant, fully double.

*PAUL NEYRON. This magnificent rose is by far the largest variety in cultivation. Very double and full, deep rose and delightfully fragrant.

*PERSIAN YELLOW (AUSTRIAN BRIAR). The Hardy Yellow Rose of olden times. Deep golden yellow, semi-double and very hardy, suitable for planting in old-fashioned gardens and among shrubs.

*ULRICH BRUNNER. A rose of beautiful form and finish, brilliant cherry-crimson. Vigorous, blooming continuously in the open.

**Prices on Pot Grown Hardy Perpetual Roses**
Each, $1.00; doz., $11.00; 100, $85.00.

**Pot grown roses shipped by express, collect.**

# Vaughan's Vigor Strawberry Plants

**Strong Field Grown Plants, Shipped from Early Spring up to May 15th.**

Our plants are grown under ideal conditions in Michigan. They have been developed from selected plants. We know you will be pleased. Varieties below are up to date.

Write for pamphlet on Strawberry Culture.

All varieties listed are perfect sorts, are self-pollenizing and will bear as well if set by themselves.

AROMA. Late. One of the most popular late varieties. Fruit large to very large; holds its size well throughout all the pickings. Berry is roundish, conical, smooth and perfect in form and of a beautiful bright glossy red in color; very firm and of high quality. Its rich aromatic flavor has suggested its name.

DR. BURRELL. Mid-season. The berries are large, delicious and beautifully formed. The surface of the berry is a deep glossy red. The meat is solid. If you are looking for a good dependable all-purpose variety you will make no mistake in planting Dr. Burrell. In manner of plant growth this variety closely resembles Senator Dunlap, but will produce more heavily with bigger, and better berries. It ripens a few days earlier than Dunlap.

COOPER. Mid-season. The large size and the beautiful brilliant color of the berries immediately attracts the attention of every one, but the greatest feature of all is that peculiar mild, delicious flavor not found in any other Strawberry. Due to the wonderful vigor of the plant this variety is adaptable to a wider range of soils and climate than any other variety. The foliage is immense. The big broad leaves often growing a foot high. Cooper is strongly staminate and can be grown alone and is an ideal mate of any of the pistillate or imperfect varieties due to the long blooming season.

GIBSON. Medium early. Berries are large and regular in shape holding their size well to the end of the season. Color rich red. Flavor is neither sweet nor sour, but just right for canning. Extremely productive, in fact we know of no variety that will produce more quarts of berries per acre than the Gibson. It makes a strong, vigorous plant that withstands adverse conditions admirably. This variety seems to embody every requirement necessary for a profitable berry. We recommend it and know you will not make any mistake in planting Gibson.

PREMIER. Early. Berries are large, beautifully formed, red through and through; flavor delicious. A splendid shipper. The deep heavy rooting system makes the plant a strong drought resister, and it is especially adapted to any soil or climate, giving you a big crop of fancy berries which will sell at highest prices. Where extra fancy early fruit is wanted we advise this.

SENATOR DUNLAP. Mid-season. The fruit is dark red with glossy finish, shading to a deep scarlet on the underside. The meat is a bright red all through and exceedingly juicy. It succeeds everywhere and with everybody—the beginner as well as with the veteran grower—but it should not be allowed to mat too thickly. For a medium sized productive early to mid-season berry you need not hesitate to plant Dunlap.

Price, on the above varieties, postpaid up to the 4th zone, 25 for 60c; 100 plants for $1.75. Postpaid from 4th zone to 8th zone, 25 for 70c; 100 for $2.00. By express, at buyer's expense, 100 for $1.75; 500 for $6.50; 1,000 for $12.00. Write for prices on larger lots.

SPECIAL OFFER No. 91. A Strawberry collection, 100 fine strong plants (Spring delivery only) in four good sorts, our selection, postpaid, for $1.70.

### Three Leading Everbearing Varieties

CHAMPION. A strong, healthy, deep-rooted plant, very productive. Fruit similar to Dunlap in size, shape and color. A beautiful rich red color clear through, good quality and delicious flavor. In addition to the wonderful fall crop produced by the Champion they are the earliest to ripen in the spring.

PROGRESSIVE. Has long been the leading everbearing variety. It now has to take second place as the new Champion is superior in every respect. The Progressive is a tall, healthy grower, deep-rooted and entirely free from fungus diseases. Very productive, berries medium size, good quality and delicious flavor.

Price of above two varieties, 25 for $1.00, 50 for $1.65, 100 for $2.75, postpaid to 4th zone; 250 for $6.00, 500 for $10.00, 1000 for $18.00, by express.

MASTODON. The world's greatest everbearer because nothing like it was ever achieved before, producing nearly 6000 quarts per acre during August, September, October and November. In size, quality, flavor and appearance Mastodon heads the list. Unlike other everbearers, the plants of Mastodon are large, vigorous, heavily crowned and deep rooted.

Price, 25 for $1.50, 50 for $2.75, 100 for $4.00, postpaid to 4th zone; 250 for $8.00, 500 for $15.00, 1000 for $27.50, by express.

# Garden Chrysanthemums

ALL CHRYSANTHEMUMS need the protection of a heavy mulch and they are benefited by being annually divided in the spring. Winter damage is chiefly from heaving. The clumps grow on the outside and grow old in the center; and frost action lifts their shallow roots. If each spring one divides the roots, planting the younger growth firmly in new locations, the stock will be multiplied and earlier and more vigorous flowers will result. Sturdy plants, pot grown in our own greenhouses, F.O.B. Western Springs, Ill. We recommend parcel post shipment; weight, 6 ounces per plant. Chrysanthemums that would flower successfully in the open garden have been wanted a long time, and in the following we offer a set that will furnish an abundance of flowers from August until heavy frost. They grow 2 to 4 feet high, in any good garden soil.

## Large-Flowered

### Outdoor Type As Illustrated

*A. BARHAM. A beautiful orange bronze, flowers 2 in. across. Matures Oct. 5.

BRONZE BUCKINGHAM. Single type. Dark buff, blooms in profusion. Blooms Oct. 20.

*CARRIE. Deep yellow flowers in clusters. Commences blooming end of August and continues until frosts.

*CRANFORDIA WHITE. Pure white flowers, solid and on long stems. Blooms Oct. 15.

*EDEN. Bright rose in graceful sprays. Flowers Oct. 5.

*FIREFLY. Reddish bronze, almost maroon. Large blooms commencing Oct. 12.

*MURILLO. Pale pink, begins to flower Oct. 1st. Always loaded with blooms, fine for cutting.

WOLVERINE. Very early, flowering about the same time as Carrie in late August and continues till frosts.

*YELLOW NORMANDIE. One of the best. A deep yellow showing buff when opening. Hardy, blooms from Oct. 1 to severe frosts.

ZELIA. Deep buff blooms of large size. Flowers inmid October.

**Prices** of above Large Flowered Type, 3 for 85c; doz., $2.50; 100, $15.00.

### Button Type

BESSIE BROWN. Warm Chestnut bronze. Very effective with yellow. Blooms Oct. 15.

METZI. Bronze, darker center. Blooms Oct. 10.

*RODELL. Yellow button very bushy. Flowers Oct. 10.

SKIBO. Yellow with bronzy red center. Oct. 15.

**Prices** of All Button Type. 3 for 85c; doz., $2.50; 100, $15.00.

***Illustrated in Color on Fourth Front Cover Page.**

## New and Recent Introductions

BARBARA CUMMING. Blooms are large, measuring 3 inches. Clear yellow shading to orange bronze center. Flowers in September.

FRANCIS WHITTLESEY. Rich bronze and garnet red. Low growing, blooms in late September. Striking variety showing almost red.

GYPSY GIRL. Deep chestnut-crimson, single flowers. Blooms from early October to heavy frosts.

JEWEL. Large button like flowers of deep pink. An unusual type, good for cutting. Blooms Oct. 5.

OCTOBER DAWN. Dainty pale pink flowers 2 in. in diameter on well branched stalks. In full bloom by Oct. 10.

OCTOBER GIRL. Handsome pink blooms. Single to semi double. Flowers in late September. A very prolific bloomer.

RUTH CUMMING. Introduced ten years ago and still good. Blooms Oct. 10. A rich reddish bronze with terra cotta and lighter tones.

RUTH HATTON. Clear ivory white with lemon shading in center. Very hardy and blooms Oct. 10.

R. MARION HATTON. A new yellow. Shapely, compact blooms, medium size and borne in profusion. Commences blooming in late September.

TINTS OF GOLD. Buff colored single flowers making a bright splash of color. Blooms Oct. 5.

**Prices** of New and Recent Introductions, 3 for $1.50; doz., $5.00; 100 $35.00.

### Chrysanthemum Collections

COLLECTION 92A. Our selection 6 different colors, Large Flowering outdoor type Chrysanthemums. 6 plants for $1.50, not prepaid.

COLLECTION 92B. One each of the 4 Button Type Chrysanthemums. $1.00, not prepaid.

# Vaughan's Cannas

## The Four Leaders

***King Humbert** 4 feet. Scarlet flowers, bronze leaves. This remarkable "Gold Medal" Canna has been the sensation of the past twelve years. A cross between the orchid-flowering and the French or Crozy type, combining the large flowers of one with the free-blooming character of the other, and the handsome broad, tropical foliage.

***Yellow King Humbert** 4 feet. Foliage a very dark green, flowers a deep rich yellow, softly spotted and blotched with bright red; measuring 5 to 7 inches across, individual petals 3 to 3½ inches in diameter. An orchid flowering sport of the well-known variety King Humbert.

***Hungaria** 3½ feet. The best pink Canna. Leaves bluish green, never burn. Flowers very large, with immense petals. Trusses of enormous size borne well above the foliage. Very compact, almost dwarf and of a very luxuriant growth. Three-inch pot plants, each, 35c; doz., $3.25; 100, $20.00.

***The President** 4 feet. A rich glowing scarlet with immense rounded flowers, seven inches across when fully open, are produced on strong erect stalks well above the heavy foliage. Free-bloomer and strong grower.

**Price,** except where noted, three-inch pot plants, each, 30c; doz., $3.00; 100, $18.00.

SPECIAL OFFER No. 92. One each of the above four Cannas, three-inch pot plants, for $1.25.

### New Introductions

*Copper Giant. 4 ft. Madder red and old rose. Immense flowers with the shade of burnished copper. Blooms continuously and is an outstanding variety. Green foliage. Three inch pot plants, each 50c; doz., $4.00; 100, $25.00.

*Hollywood. 4 ft. Introduced in 1927. Orange pink flowers, green foliage. Color is a remarkably clear orange pink and blooms are large. Three inch pot plants, each 50c; doz., $4.00; 100, $25.00.

## Vaughan's Standard Varieties

*Allemania. 5 ft. Bright scarlet with yellow border: green foliage.

Ambassador. 3½ to 4 feet. Bronze foliage; color poppy red; very brilliant flowers are borne in immense trusses on strong stalks well above the foliage; petals measuring from 2 to 2½ inches across.

Apricot. 4 feet. The color is a buff-yellow base overspread with salmon-pink, making a mass effect of rich apricot.

City of Portland. 3½ feet. A deep pink which does not fade in hot weather. A free-bloomer, with flowers borne well above the foliage. Distinct among the several really worth while pink Cannas.

Dr. E. Ackernecht. 4 ft. Large flowers in a loose truss. Rich cerise pink flecked with deeper carmine. Petals broad and large.

Eureka. 4 feet. Remarkably free-flowering variety and with its striking white flowers, which first appear cream, makes a very effective show in conjunction with a good scarlet such as King Humbert. A robust grower, forming sturdy, shapely plants.

Florence Vaughan. 5 feet. The most famous yellow Canna. Introduced by us in 1892, it still remains indispensable in its class.

Gaiety. 4 ft. Scarlet-orange mottled with carmine and edged clear yellow. A handsome variety.

*Louisiana. 6 feet. Very large beautiful vivid scarlet orchid-like flowers, often measuring 5 to 6 inches across. Foliage a glossy green.

Mrs. Alfred F. Conard. 4 feet. Flowers salmon-pink of large size on finely shaped flower heads.

Shenandoah. 4 feet. Pink. Exactly like Mrs. Alfred F. Conard, except that the folliage is light bronze.

*Statue of Liberty. 6 feet. An extremely vigorous grower. Bronze foliage and orange-scarlet flowers.

*Wintzer's Colossal. 5 feet. A striking vivid scarlet that retains its brilliancy. One of the largest flowering of all, producing immense trusses.

Vaughan's Standard Varieties. Three-inch pot plants, each, 30c; doz., $3.00; 100, $15.00.

**All Canna plants F. O. B. our Greenhouses, Western Springs, Illinois. We recommend shipment by express of four or more plants.**

Number of Cannas required for round beds planted eighteen inches apart each way for the following sizes: Seven feet—nineteen plants, one for center; six for first row, twelve for second or outside row. Ten feet—thirty-seven plants, one for center; six for first row, twelve for second row, eighteen for third or outside row. Thirteen feet—sixty-one plants, one for center; six for first row, twelve for second row, eighteen for third row, twenty-four for fourth or outside row.

HUNGARIA

**All Cannas marked (*) are Orchid Flowering Varieties.**

# Vaughan's Glorious Gladioli

GLADIOLI have steadily won their way to preeminence in the summer garden. From their first introduction into this country, they have found to their liking both our soil and our climate, especially the hot sun of midsummer which so many flowers dislike.

With this willing spirit and vigor to build upon, American gladiolus breeders have quickly attained world leadership in the improvement of this flower. And the flower itself has responded with amazing ability to grow in size, in form and in variety of coloring.

The modern gladiolus is without a rival in the summer garden for brilliant and varied color, beauty of bloom, long season of flowering and ease of culture. A well matured bulb planted in ordinary soil will bloom, unless some accident destroys it. With skilled care, remarkable results can be obtained from even the most obscure varieties.

Vaughan's Seed Store has been identified with the development of gladioli in America since its beginning. We are now the largest growers of gladioli in this country. On our farms in Illinois and Michigan we devote more than 400 acres to gladiolus culture, trying out every new variety of merit introduced the world over as well as conducting continuous hybridizing operations with a trial ground of five acres devoted to seedling varieties for our own instruction.

In addition to varieties listed in this catalog we grow many other named varieties. A complete list with prices on bulbs of various sizes will be mailed on request.

## A Chance for Fame

### Vaughan's Unnamed Seedling Blend

Seedling gladioli are new varieties developed by our hybridizer and grown in our trial grounds. Of the thousands thus originated, a few are chosen for introduction each year. This choice is a matter of opinion; many of those not chosen you might rate as more beautiful than any now known in commerce. Others are similar to the newest and most expensive varieties, too similar to be introduced as separate varieties. All these unnamed, unintroduced, new gladioli are put into this mixture, which thus becomes a treasure-trove, in which you may find a fortune. Doz., $1.00; 100, $7.00.

### Vaughan's Unnamed Yellow Seedlings

We have placed in this, all yellow seedlings, which we have decided not to introduce, but among which your judgement may find varieties which will be acclaimed greater than those we have chosen. Ea., 15c; Doz., $1.50; 100, $10.00.

## American Gladiolus Society Achievement Shield

**The achievement trophy awarded each year at the national gladiolus show for the exhibitor winning the most awards, was won in 1931 by Vaughan's Seed Store. At the National Show held in Cleveland, we were awarded 7 first prizes, 6 seconds, 2 thirds, giving us a total of 35 points. At the same show we won the Seabrook perpetual challange cup awarded annually for the most artistic basket of gladioli.**

## Vaughan's Rainbow" Gladioli

### A Rainbow Garden of Gladioli for $1.00

A Dollar never bought more beauty than our **Special Offer of 60 Flowering Size Bulbs of Vaughan's Glorious Gladioli,** including not less than **Five Varieties for $1.00.** Rarely are flowers of the highest merit the most easily grown and surest of success. But such is the case with Gladioli. If there is room for but a single flower in the garden it should be this.

**60 BULBS, Flowering Size, not less than 5 Varieties, postpaid, for $1.00.**

## Primulinus Hybrids Mixed

The range of colors is from the purest and lightest of yellows to deepest orange and from the softest shade of salmon-pink to rich crimson. On account of their slender and graceful habit, delicate colors and shape of the flowers they are ideal for vases. Each, 10c; doz., 75c; 100, $5.00.

## Gold Coast Collection

### TWENTY CHOICE VARIETIES

This special offer enables you to obtain at a much reduced cost first size bulbs of the twenty outstanding varieties listed below which every lover of Gladiola will desire to add to his collection.

One each of the varieties listed below (20 bulbs) $2.50 prepaid.

Two each of the varieties listed below (40 bulbs) $4.50 prepaid.

Five each of the varieties listed below (100 bulbs) $10.00 prepaid.

**ALMA** Immense flowers of light orchid.
**BETTY NUTHALL** The best orange pink.
**BYRON L. SMITH** Light Lavender, pale throat.
**EMILE AUBRUN** A sensational French novelty of the "smoky" class.
**CHARLES DICKENS** A beautiful violet purple.
**FLORENCE** Bright lilac.
**FLANDERS** Brilliant scarlet of the Primulinus type.
**GIANT NYMPH** Great showy blooms of La France pink.
**IMPROVED MARTHA WASHINGTON** Large light red, deep maroon throat.
**LONGFELLOW** Pure pink.
**MRS. L. S. HUBBARD** A plum colored Primulinus.
**MRS. P. W. SISSON** Immense ruffled soft pink.
**NANCY HANKS** Vigorous orange pink.
**ORANGE QUEEN** Pure orange colored, large flowered Primulinus.
**PUREST OF ALL** A pure white, one spike of which looks like an entire bouquet.
**PURPLE GLORY** Ruffled velvety light maroon.
**ROSE ASH** Very strong, large old rose "smoky."
**SCARLANO** Brilliant Scarlet, nicely ruffled.
**SPHINX** Giant blooms of lilac red.
**THE VAMP** Delicate pink distinctly blotched deep red.

## Vaughan's World's Fair Collection

### LARGE BULBS

This name has been chosen by us for our highest quality blendings of the many named varieties which we grow, including French novelties with other choice varieties, of which we have only moderate quantities. This is the best mixture which our collection permits, and we believe unexcelled by any obtainable elsewhere. Each lot, whether in dozens., 50s or 100s, of all Vaughan's Mixtures, is put up separately to insure correct proportions.

Price, 15 Bulbs, all different, $1.00, postpaid; by express, not prepaid, 50 for $2.75; 100 for $5.00; 250 for $11.50; 500 for $21.00.

## Vaughan's "Standard" Mixture

We have thrown away all the common and cheap leftover which our trial grounds have proved to exist in old mixtures. We do not send out any mixtures that will not make a brilliant showing in the gardens of our customers. This one, "STANDARD" MIXED, will be found satisfactory everywhere, for mixed beds, borders and masses, and offered at very moderate prices. These are first-size bulbs. Where wanted by mail add for postage at zone rates, 100 bulbs packed, 6 lbs.

Price, doz., 40c, postpaid; by express, not prepaid, 50 for $1.40; 100 for $2.50; 250 for $6.00; 500 for $11.50; per 1,000, $22.00.

# Vaughan's Introductions of 1931-1932

**Canyon Violet (938)** Another of the famous Vaughan Violet and Blue shade varieties. Deep violet blue with a darker and larger bloom than our Rosa Raisa or Blue Royale. Veay tall and a strong grower. Each, $10.00.

**Blue Royale (1165)** True violet blue. Very prolific and much larger, taller and stronger grower than any other blue we or any one else have yet introduced. In season it is later than Rosa Raisa or Mrs. T. J. Knudson. It won first place as the best purple or violet at Atlantic City show. See 6th cover. Each, $8.00.

**Mary Shary (1167)** Clear soft primrose yellow with a deeper yellow in throat, faint marking in throat. Spike tall, straight and strong. Flowers well placed, 6 to 8 open. By artificial light remains a beautiful yellow for evening decorations. Each, $3.00.

**Grand Rapids (1050)** Light lavender with a white throat marked with a small blotch of lilac, anthers pure white, reflex of darker lavender, flowers well placed, medium size, 8 to 10 open together. Medium height, early, type of Minuet. First prize at Michigan Gladiolus show for best lavender seedling. Each, $2.00.

## Collection No. 600B—Smoky Mixture

A mixture of "smoky" varieties, this name having been adopted by the American Gladiolus Society for a type of coloring which consists of a soft blend of many tones, in misty effects, for which the vocabulary of color provides no exact names. This mixture includes many seedlings never introduced; and affords a most interesting assortment of odd, artistic colorings. Doz., $1.50.

**Whitehall (1761)** There is an increasing demand for good primulinus varieties on account of their graceful habit and adaptability for house and basket arrangement. An exeptional pure white with no markings. Extra long spike. A successful prize winner in the gladiolus shows of the past season. Each, 50c, doz., $5.00.

**Mrs. Frances L. Karcher (1600)** Light salmon blending to an orange on outer edge of petals, throat petals striped with crimson. Reflex orange crimson. Tall straight spike, flowers well placed, 6 to 8 blooms open, free bloomer, early. An ideal commercial orange scarlet. First at Michigan show for best orange and best commercial seedling. See 6th cover. Each, $4.00.

**Rhapsody in Blue (1166)** Pale blue violet with deep violet throat. Flowers well placed, many open at once. A distinct acquisition to the all too few good blues. See 6th cover. Each, $10.00.

**Yellowstone (1240)** Early, tall, clear yellow primulinus similar to Souvenir, but deeper yellow and better grower. Firsts at Michigan show for best yellow primulinus and best primulinus seedling. A perfect self-color, beautifully formed. Each, 50; doz., $5.00.

## Collection No. 601B—Vaughan's Introductions

**Princeps,** brilliant scarlet; **Detroit,** orchid color; **Kalamazoo,** purple; **Improved Martha Washington,** scarlet with dark blotch; **Flanders,** red primulinus; **Lansing,** salmon pink; **L. W. Wheeler,** pink and cream; **Ionia,** yellow tinged with pink; **Edith Mason,** clear self pink; **Improved Schwaben,** pale yellow; **Coppersheen,** bronzy orange primulinus; **Pink Medallion,** delicate true pink, very early primulinus. One each (12 bulbs) for $2.00; three each (36 bulbs) for $5.00; six each (72 bulbs) for $9.00.

***This mark indicates the variety was first introduced by Vaughan's Seed Store, Chicago and New York. Ask for Complete List.**

**The price for single bulbs and by the doz. as above, include free parcel post delivery through 5th zone. For prepayment to further zones, add 5c doz.**

# Vaughan's Glorious Gladioli

**ALICE TIPLADY.** (Prim.) Orange-saffron. Each 6c; doz., 60c; 100, $4.00.

***ALMA (414).** Phlox pink or orchid. Throat darker, surrounded by cream. Each 10c; doz., $1.00; 100, $7.00.

**ALBANIA.** Pure white. Each, 10c; doz., $1.00; 100, $7.00.

**AMERICAN BEAUTY.** Brilliant American Beauty color. Throat creamy-yellow striped with ruby. Each, 25c; doz., $2.50; 100, $18.00.

**AMARYLLIS.** Blood-red flower. Each, 15c; doz., $1.50; 100, $10.00.

**ANNA EBERIUS.** Dark velvety purple, throat deeper. Each, 10c; doz., $1.00; 100, $7.00.

**ANNIE LAURIE.** Ruffled delicate pink, overlaid light rose pink toward edge. Light purplish lines in throat. Each, 25c; doz., $2.50; 100, $18.00.

**ANNIE MAY.** A beautiful lilac shade with pure white throat, enormous tall spike sometimes growing 5 feet tall. Each, 50c; doz., $5.00.

**A. W. HUNT.** Best orange-red, large flowers. Each 10c; doz., $1.00; 100, $7.00.

**BARON J. HULOT.** The leading purple variety. Each, 10c; doz., $1.00; 100, $7.00.

**BALBOA.** Apricot-pink, yellow throat. Each, 25c; doz., $2.50; 100, $18.00.

**BELINDE.** Soft creamy-yellow novelty with very large well-opened flowers. Each, $1.00; doz., $10.00.

**BETTY NUTHALL.** The coloring is new—a warm, light coral with pale orange throat and a light feathering of carmine. The florets are often six inches across, of splendid substance and placement. Each, 25c; doz., $2.50; 100, $18.00.

***BIJOU (909).** Primulinus. Flowers slightly ruffled pinkish apricot. Well placed. Height, 30 inches. Each, 50c; doz., $5.00.

***BLOOMINGTON (807).** Good spike, 5 open flowers, 10 buds, well placed. Color amaranth with crimson blotch. Each, 25c; doz., $2.50; 100, $18.00.

**BYRON L. SMITH.** Beautiful lavender-pink on white ground, an orchid shade. Each, 10c, doz., $1.00; 100, $7.00.

***CADILLAC (1026).** Tall spike. Color golden apricot, fading to apricot-rose toward edge of petals, no throat markings, stamens and pistils creamy-white. See 6th cover. Each $2.00; doz., $20.00.

**CAPTAIN BOYNTON.** See 7th cover. Each, 10c; doz., $1.00; 100, $7.00.

**CARUSO.** See 6th Cover. Each, 15c; doz., $1.50. 100, $10.00.

**CHARLES DICKENS.** C. 1st A. Purple violet, long gracious spike. Each, 20c; doz., $2.00; 100, $15.00.

***CLARA ADAMS (234).** Light pink with a slight crimson marking in the throat. Each, 6c; doz., 60c; 100, $4.00.

**CRIMSON GLOW.** A perfect, very large deep scarlet-crimson; flowers on tall, strong spike. Each, 10c; doz., $1.00; 100, $7.00.

**COPPERSHEEN.** A very attractive primulinus novelty. It contains a blending of colors difficult to describe, but which gives the flower a bronzy-orange effect. Each, 35c; doz., $3.50; 100, $25.00.

**DEARBORN.** Immense florets of deep flesh color, light coral reflex, lip amber yellow, blending to flesh, marked with a feathering of deep crimson. See 6th Cover. Each $5.00; doz., $50.00.

**DESDEMONE.** Ashy-rose striped lilac; large dark red blotch, edged ivory-white. Each, 20c; doz., $2.00; 100, $15.00.

***DETROIT.** Light pink with pencilings of light crimson on upper petals, carmine splashes overlying sulphur on lower petals. Each, 25c; doz., $2.50; 100, $18.00.

**DEUTCHLAND.** Color is a wonderful pink, with fiery crimson blotch. Each 10c; doz., $1.00; 100, $7.00.

**DIANA.** Gorgeous bright red blossoms on tall spikes. Each 10c; doz., $1.00; 100, $7.00.

***DOROTHY VAUGHAN (242).** This is a very tall, medium early, color is a very faint apple-blossom pink. Each 10c; doz., $1.00; 100, $7.00.

**DR. F. E. BENNETT.** See 7th Cover. Each, 10c; doz., $1.00; 100, $7.00.

**DR. MOODY.** Large Lavender. Each, 20c; doz., $2.00; 100, $15.00.

**DR. HAN PFITZNER.** Wonderful soft pink. Each, 10c; doz., $1.00; 100, $7.00.

**DR. NELSON SHOOK.** A giant in plant and flower. Deep Tyrian rose color. Each, 20c; doz., $2.00; 100, $15.00.

**DREAM.** Massive ruffled blossoms of deep salmon-red with large showy throat blotches of dark red. Each, 20c; doz., $2.00; 100, $15.00.

***EDITH MASON (365).** A beautiful delicate, self-pink of the shade called by Ridgeway, geranium. See 7th Cover. Each, 25c; doz., $2.50; 100, $18.00.

***ELSIE McCORMICK (467).** See 7th Cover. Each, 10c; doz., $1.00; 100, $7.00.

**EMILE AUBRUN.** Begonia-rose, with an overlay of a smoky tint giving metallic bronzy appearance, cherry blotch in the throat. Each, 20c; doz., $2.00; 100, $15.00.

**FAY LAMPHIER.** Large, well expanded flowers of geranium-pink overlaid with scarlet. Each, 10c; doz., $1.00; 100, $7.00.

**FERN KYLE.** A large ruffled flower of creamy-white color. Vigorous grower. Each, 15c; doz., $1.50; 100, $10.00.

***FLANDERS (720).** Red Primulinus. Flowers well placed, wide open, brilliant stamens light. Each, 10c; doz., $1.00; 100, $7.00.

**FLORENCE.** Bright lilac, white blotch on lower petals. Each, 15c; doz., $1.50; 100, $10.00.

**FOREST FIRE.** The flowers are a dazzling shade of orange-scarlet. See 6th Cover. Each, 35c; doz., $3.50; 100, $25.00.

**FRANK J. SYMMES.** A fine ruffled geranium pink distinctly blotched scarlet-red at the throat. Each, 15c; doz., $1.50; 100, $10.00.

**GIANT NYMPH.** La France-pink; with creamy-yellow throat; very large, wide-open flowers, long spikes and flowers well placed. Each, 10c; doz., $1.00; 100, $7.00.

**GOLDEN DREAM.** Clear deep yellow. Each, 10c; doz., $1.00; 100, $7.00.

**GOLDEN MEASURE.** See 7th Cover. Each, 10c; doz., $1.00; 100, $7.00.

**GOLD EAGLE.** Prolific yellow. Each, 25c; doz., $2.50; 100, $18.00.

**HEAVENLY BLUE.** Large clear delicate lavender blue of great refinement and elegance. Reverse of petals darker. Each, 35c; doz., $3.50; 100, $25.00.

**HENRY C. GOEHL.** Large, open, creamy-white flowers, beautifully blotched red. Each, 15c; doz., $1.50; 100, $10.00.

**HENRICH KRANZLEITER.** Brilliant dark, velvety blood-red, the largest and earliest of dark gladiolus. Each, 15c; doz., $1.50; 100, $10.00.

**HERADA.** Large blooms of pure mauve, with deeper markings in throat. Each, 6c; doz., 60c; 100, $4.00.

**HERBSTZAUBER.** (Autumn Fascination), wonderful copper-salmon. Each, 50c; doz., $5.00.

**HOLLYHOCK.** White with crimson blotches. Each, 50c; doz., $5.00.

***HURON.** A "Smoky." Light ash rose on upper petals. Edges of lower petals plum shade toning lighter to center with blotches of cream. Each, 20c; doz., $2.00; 100, $15.00.

**ILLUMINATOR.** Carmine-red. Each, 10c; doz., $1.00; 100, $7.00.

***IMPROVED MARTHA WASHINGTON (132).** Large, light red flower with throat blotches that are almost black. See 7th Cover. Each, 15c; doz., $1.50; 100, $10.00.

***IMPROVED SCHWABEN (395).** A Schwaben seedling, deeper yellow with very little markings. See 6th Cover. Each, 10c; doz., $1.00; 100, $7.00.

***IONIA (323).** See 7th Cover. Each, 10c; doz., $1.00; 100, $7.00.

**JACK LONDON.** Light salmon, suffused and vermilion. Each 10c; doz., $1.00; 100, $7.00.

***KALAMAZOO.** Purple-violet with lines of creamy-white running through each petal, and throat of creamy-white. See 7th Cover. Each, 25c; doz., $2.50; 100, $18.00.

***LANSING.** White ground is overlaid with pale sulphur-yellow on two side petals, with tips of all petals tinted light flamingo pink. See 6th Cover. Each, 20c; doz., $2.00; 100, $15.00.

**LAVENDER AMERICA.** Solid lavender color. Tall plant, strong grower. Each, 20c; doz., $2.00; 100, $15.00.

**LA PALOMA.** Pure orange grandiflora prim. Each, 50c; doz., $5.00.

**LONGFELLOW.** Flowers of La France-pink on a tall, wiry stem. Each, 15c; doz., $1.50; 100, $10.00.

**LOS ANGELES.** Shrimp pink with orange-carmine throat. Each, 10c; doz., $1.00; 100, $7.00.

**LOUISE.** Lavender. Each, 10c, doz., $1.00; 100, $7.00.

**LUSTRE.** Dark orange-vermilion. Each, 10c; doz., $1.00; 100, $7.00.

***L. W. WHEELER (394).** See 6th Cover. Each, 10c; doz., $1.00; 100, $7.00.

***MANISTEE (303).** This is a large ruffled pink. Flower well placed and beautifully ruffled. Each, 15c; doz., $1.50; 100, $10.00.

**MARMORA.** It is large, stately, and most unusual in colors which are lavender gray with petunia colored blotch. Each, 35c; doz., $3.50; 100, $25.00.

***MARTHA PHILLIPS (142).** Dark solid red, florets medium size, many open at a time and well-placed. Each, 10c; doz., $1.00; 100, $7.00.

**MARY FREY.** Originator's description: Beautiful lavender-pink with a ruby blotch on lower petal; resembles a cattleya orchid in color. Each, 20c; doz., $2.00; 100, $15.00.

***MARY H. DICK (490).** Season 75 days. Pink prim. Hybrid. Slender, tall, straight spike with florets well-placed. Each, 10c; doz., $1.00; 100, $7.00.

**MARY INNES.** Geranium pink, throat blotched with pansy purple. Each, $1.00; doz., $10.00.

**MARY PICKFORD.** Creamy white, throat soft sulphur-yellow. Each, 10c; doz., $1.00; 100, $7.00.

**MERCEDES.** Carmine-rose and pale rosy-white; with a very effective red blotch on lower petals. Each, 20c; doz., $2.00; 100, $15.00.

**MINUET.** Beautiful pure, clear lavender. See 7th Cover. Each, 20c; doz., $2.00; 100, $15.00.

**MISS MADISON.** Light pink. Each, 15c; doz., $1.50; 100, $10.00.

**MRS. P. W. SISSON.** Immense ruffled blossoms of softest pink, delicately shading to a creamy white throat. Blooms well placed on willowy spike. Each, 15c; doz., $1.50; 100, $10.00.

**MONA LISA.** Ruffled, palest soft rose-pink. Each, 15c; doz., $1.50; 100, $10.00.

**MRS. DR. HAUFF.** Brilliant scarlet, many large flowers open, fine spike. Each, 50c; doz., $5.00.

**MRS. DR. NORTON.** Pure, soft white, with tips of petals suffused La France pink. Each, 10c; doz., $1.00; 100, $7.00.

**MRS. F. C. PETERS.** Rose-lilac, with crimson blotch. Each, 10c; doz., $1.00; 100, $7.00.

***MRS. FRANCIS KING.** See 6th Cover. Each, 5c doz., 50c, 100, $3.50.

**MRS. FRANK PENDLETON.** See 7th Cover. Each, 6c; doz., 60c; 100, $4.00.

***MRS. H. A. CAESAR.** Five to eight open flowers, well-placed. Lavender shading to lilac with a yellow dash in the lower petals. Each, 10c; doz., $1.00; 100, $7.00.

**MRS. H. E. BOTHIN.** Light geranium-pink, heavily ruffled. Flamed scarlet center. Strong, well built spikes. Each, 15c; doz., $1.50; 100, $10.00.

***MRS. JULIUS ROSENWALD (11).** Season 81 days. Color, wine-red, lightly flaked with a deeper red. Each, 50c; doz., $5.00.

**MRS. LEON DOUGLAS.** See 7th Cover. Each, 10c, doz., $1.00; 100, $7.00.

***MRS. L. S. HUBBARD (344).** Season 68 days. Prim. Hybrid. Massed together in a bouquet, the general appearance is a beautiful plum color. Each, 10c; doz., $1.00; 100, $7.00.

**MRS. T. J. KNUDSON.** This is one of the new Vaughan blues, lighter than Rosa Raisa. Clear light blue violet, shading deeper toward the outer edge of petals. The throat has a deep violet plume, tipped by a bright creamy spire. Florets are medium, well placed, many open at once. This is an outstanding introduction. Each, $8.00.

**MRS. VON KONYNENBURG.** A near approach to blue. A robust grower, tall and strong, with six to seven flowers open at a time. Each, 15c; doz., $1.50; 100, $10.00.

**NANCY HANKS.** Rich apricot to orange-pink with grenadine tongue. Vigorous grower. Will not burn in hot climate. Each, 15c; doz., $1.50; 100, $10.00.

**ODIN.** Salmon with dark blotch, large flowers. Very fine. Each, 6c; doz., 60c; 100, $4.00.

**ORANGE GLORY.** Bright orange, with slight purple and white markings in throat. Each, 10c; doz., $1.00; 100, $7.00.

**ORANGE QUEEN.** See 7th Cover. Each, 10c; doz., $1.00; 100, $7.00.

**ORPHEUS.** Fine blood-red, with many blooms open. Sturdy grower. Each, 20c; doz., $2.00; 100, $15.00.

***OWOSSO.** Cream-yellow, deeper on lower petals. Each, 15c; doz., $1.50; 100, $10.00.

**PAUL PFITZER.** Shining reddish purple, with glowing center. Large flowers of excellent shape. Each, 50c; doz., $5.00.

**PEACE.** Very large, white, with pale violet feathering on lower petals; flowers correctly placed on a tall, graceful spike. Each, 6c; doz., 60c; 100, $4.00.

**PEACH ROSE.** Deep rose-pink of remarkable appearance. Each, 10c; doz., $1.00; 100, $7.00.

**PERSIA.** Dark maroon with bright green foliage and black buds. Each, 15c; doz., $1.50; 100, $10.00.

**PFITZER'S TRIUMPH.** Bright salmon orange with small velvet red blotches. See 7th Cover. Each, 25c; doz., $2.50; 100, $18.00.

**PINK LILY.** Ruffled, delicate pink. Each, 15c; doz., $1.50; 100, $10.00.

**PINK MEDALLION.** (Early pink Prim.) A true pure pink, lower petals have a canary blotch with a feather of the same color as the flower. Each, 15c; doz., $1.50; 100, $10.00.

***PINKPRIM.** Large-flowered Prim. Hybrid, salmon-pink marked by white blotches at the lower petals and deep throat stippling of salmon-rose. Each, 10c; doz., $1.00; 100, $7.00.

***POMPADOUR (444).** Extra tall and strong. Color pale ivory, tip deep cream, narrow line of crimson lake on three lower petals. See 6th Cover. Each, $5.00.

***PONTIAC—PRINCEPS.** Very large flower with Princeps throat markings. Petals slightly striped with deep vermilion, stalk as strong as Schwaben. Each, 6c; doz., 60c; 100, $4.00.

**PRIDE OF WANAKAH.** Lavender-rose, deeper in throat. Tall large flowers, showy. Each, 35c; doz., $3.50; 100, $25.00.

***PRINCEPS.** Brilliant scarlet-crimson, carrying mostly three white blotches on lower petals. Each, 10c; doz., $1.00; 100, $7.00.

**PRINCESS ELIZABETH.** Lustrous salmon-rose spotted carmine on lower petals. Extremely large-flowering, flowers 5 to 6 in. diameter. Each, 25c; doz., $2.50; 100, $18.00.

**PUREST OF ALL.** A pure white with excellent spike and large flowers. Each, 10c; doz., $1.00; 100, $7.00.

**PURPLE GLORY.** Ruffled, velvety maroon-red, black blotches. Each, 15c; doz., $1.50; 100, $10.00.

**PYTHIA.** Large red with many blooms open at one time. Each, 15c; doz., $1.50; 100, $10.00.

**PHAENOMEN.** Salmon-pink and rich yellow. Each, 35c; doz., $3.50; 100, $25.00.

GLADIOLUS—Continued

**PEARL OF CALIFORNIA.** La France pink. Each, 25c; doz., $2.50; 100, $18.00.

**REMEMBRANCE.** Medium sized, slightly ruffled flowers of geranium pink with throat blotch of pomegranate-purple. Each, 10c; doz., $1.00; 100, $7.00.

**RICHARD DIENER.** Pure geranium pink with a slight sprinkling of ruby on creamy yellow center. Large flaring blossoms. Each, 15c; doz., $1.50; 100, $10.00.

***RIDING HOOD.** Bright red primulinus hybrid. Slender stem. Each, 10c; doz., $1.00; 100, $7.00.

**ROMANCE.** Beautiful blend of orange, salmon and rose, with a throat of red and yellow. Each, 10c, doz., $1.00; 100, $7.00.

***ROSE RAISA (1018).** Tall spike. A true blue violet, lower 3 petals blotched with darker violet, upper petals pale mauve shading to violet edge. Stamens violet. See 6th Cover. Each, $8.00.

**ROSE ASH.** (Ashes of Roses.) A new color in gladioli. A wonderfully vigorous grower. Each, 15c, doz., $1.50; 100, $10.00.

**ROSS VALLEY.** Mouse color, very odd shade. Each, 15c; doz., $1.50; 100, $10.00.

***SANDUSKY (838).** (Primulinus.) The color is laid on a flesh base not solidly, but with a misty effect, producing a blend difficult to describe. The over-tone color is classified by Ridgeway as Bordeaux. Matures in 70 days. Each, 15c; doz., $1.50; 100, $10.00.

**SCARLANO.** Light, bright orange-red. Fine spike and flower, finely ruffled. Each, 10c; doz., $1.00; 100, $7.00.

**SCARLET GLORY.** Ruffled, fine red. Each, 15c; doz., $1.50; 100, $10.00.

**SCARLET PRINCEPS.** Six or more massive Princeps-like blossoms open at one time, throat a little deeper. A very fine variety. Each, 7c; doz., 70c; 100, $4.50.

**SCARLET WONDER.** Mammoth flowers of clear, deep scarlet. Each, 15c; doz., $1.50; 100, $10.00.

**SCHWABEN.** Canary yellow. Each, 6c; doz., 60c; 100, $4.00.

***SEAFOAM (933).** White Primulinus. Good spike, flowers well open, medium size, stamens white, color pure white with greenish reflex, 4 flowers open, 7 to 9 buds. Each, 50c; doz., $5.00.

**SHIELA.** Light coral-red, fading to flesh-pink in throat, with primrose blotch on lower petals, penciled with pomegranate-purple. Each, 10c; doz., $1.00; 100, $7.00.

**SIDNEY PLUMMER.** Soft yellow, suffused delicate pink. Blooms large, well placed and slightly ruffled. Each, 25c; doz., $2.50; 100, $18.00.

**SOUVENIR.** Prim. Clear, bright daffodil-yellow without markings. Each, 8c; doz., 80c; 100, $5.50.

***SOVEREIGN.** See 7th Cover. Each, 15c; doz., $1.50; 100, $10.00.

**SPHINX.** See 6th Cover. Each, 10c; doz., $1.00; 100, $7.00.

**SYDONIA.** Rich purplish violet, with the blooms well placed on a tall, slender stem. Each, 10c; doz., $1.00; 100, $7.00.

***TAWNY (1219).** Very tall spike. Color deep rose-apricot, faintly laid with pale rose-violet at the edges. See 6th Cover. Each, $5.00.

**THE ORCHID.** Its long, narrow, ruffled and laciniated petals open to a width of six to nine inches with a ground color of very pale lavender flecked toward the edges and ends with lavender pink. Each, 15c; doz., $1.50; 100, $10.00.

***THE VAMP.** A delicate pink with the three lower petals beautifully blotched velvety crimson, surrounded by a creamy halo. Each, 6c; doz., 60c; 100, $4.00.

**TRUDEL GROTZ.** Giant flowers of brilliant dark salmon-pink, shading lighter towards the throat, with a small, red blotch. Each, 25c; doz., $2.50; 100, $18.00.

**TYCKO ZANG.** Salmon-pink white throat. Each, 15c; doz., $1.50; 100, $10.00.

**VAUGHAN'S WHITE.** See 7th Cover. Each, 15c; doz., $1.50; 100, $10.00.

***VERDUN (406).** The strong color, called by Ridgeway pansy-purple, on the edge of the petals is softened toward the center with a chalky overtone; producing a beautiful blend, the effect of which is heightened by the white throat and white blotch on the lower petals. Each, 15c; doz., $1.50; 100, $10.00.

**VIELCHENBLAU.** The first large-flowering blue violet gladiolus introduced. The color is a beautiful violet-blue darkening toward the center. The entire flower appears, at the first glance, to be made of blue velvet, the sheen is so beautiful. Each, 35c; doz., $3.50; 100, $25.00.

**VIRGINIA** (See Scarlet Princeps).

***VIRGINAL.** The pure satin white of its petals is without marking except for the faint lavender penciling deep in the throat and the lower petals. See 6th Cover. Each, 15c; doz., $1.50; 100, $10.00.

**WAR.** Deep blood-red, shaded crimson-black. Each, 10c; doz., $1.00; 100, $7.00.

***WHITE PENDLETON (550).** This is a white sport of Mrs. F. Pendleton, with a dark blotch in the throat. Each, 10c; doz., $1.00; 100, $7.00.

**W. H. PHIPPS.** See 7th Cover. La France-pink, lighter toward the center. Each, 10c; doz., $1.00; 100, $7.00.

***WINDSOR.** Sister to Detroit. A giant flower of light pink and deeper pencilings of light crimson on inside and outside of upper petals. Each, 8c; doz., 80c; 100, $5.50.

**WINSOME.** Great, round flowers of exquisite blush, shot shaded crimson pink, and conspicuous throat of crimson. Each, 10c; doz., $1.00; 100, $7.00.

# Miscellaneous Spring Bulbs

## Bulbs Shipped Separately from Seeds

Due to weather conditions during January, February and early March we prefer to send out Bulbs after March 20th unless to our customers located in the South or California. To those customers we will ship at once packed against freezing. To insure the best results from Bulbs, customers should open the package upon arrival and in case Bulbs can not be planted at once they should be placed in a dry and frostproof cellar.

### Amaryllis, Giant-Flowered

**Vaughan's New Hybrids**—(See illustration). This selection of giant bloomers in wonderfully varied and brilliant colorings has been made from thousands of seedlings produced from hand hybridized flowers by an expert grower. This giant flowered strain is a mixture with the colors ranging from the darkest red shades through the medium striped and light shades.

**Price, each, 60c; doz., $6.00, prepaid.**

**Equestre**—Orange-scarlet.

**Price, each, 25c; doz., $2.50; 25 for $5.00, prepaid.**

AMARYLLIS

### Apios Tuberosa

Splendid hardy climber. Will grow to a height of 8 to 10 feet, vine and foliage resembling a Wistaria; deep purple color, fragrant.

**Price, each, 15c; doz., $1.50; 25 for $2.50, prepaid.**

### Anemone (Windflower)

Soak bulbs in water 24 hours before planting. The variety offered below are charming hardy flowers. They are suitable for pot or border culture and, when planted in masses, are most effective. They succeed best in a light, rich well-drained loam. Plant as soon as the ground can be worked in the spring. **Special Mixed.** Doz., 55c; 100, $3.50; 1,000, $30.00 prepaid.

Belle Plaine, Ia., April 8, '31
Vaughan's Seed Store

Gentlemen—I would like to tell you how wonderful the Amarillis bulb ordered from you to be sent to my sister, an invalid, at Wichita, Kansas, last November, has proved to be. Two stalks had 7 large blossoms, and now another strong stalk has 4 more buds coming, larger than the others. We sincerely thank you. It has given much pleasure.

Mrs. W. T.

### Begonias

**Tuberous Rooted**—Unexcelled for summer bedding, such as lawn beds and borders. Make fine pot-plants. When fully exposed to the sun the beds must be kept moist.

**Single Sorts**—White, red, orange, salmon, rose.

**Price Bulbs,** 1½-2 inch, each, 25c; doz., $2.50; 100, $18.00, prepaid.

**Price Bulbs,** 2 inch, each, 35c; doz., $3.50; 100, $25.00, prepaid.

**Frilled Single Mixed Bulbs,** 1½-2 inch, each, 25c; doz., $2.50; 100, $18.00, prepaid.

**Double Sorts**—Same color as single varieties.

**Price Bulbs,** 1½-2 inch, each, 30c; doz., $3.00; 100, $22.00, prepaid.

**Price Bulbs,** 2 inch, each, 40c; doz., $4.00; 100, $27.00, prepaid.

**Frilled Double Bulbs,** 1½-2 inch, each, 30c; doz., $3.00; 100, $22.00, prepaid.

**Lloydii.** Used for hanging baskets. Each, 40c; 4 for $1.50; doz., $4.00; 25 for $7.00. Double blooming, many fine pink shades.

BEGONIAS

### Caladium Esculentum

**Elephant's Ear**—One of the most effective foliage plants for beds and borders. Can be used with good effect as a border for tall-growing Cannas when edged with Coleus or other low-growing foliage plants.

**First Size**—5 to 7-inch circumference. Mailing weight, 4 lbs. per doz.
**Price,** 3 for 25c, prepaid; doz., 90c; 25 for $1.50, not prepaid.

**Select Size**—7 to 9-inch circumference. Mailing weight, 6 lbs. per doz.
**Price,** 3 for 35c, prepaid; doz., $1.35; 25 for $2.25, not prepaid.

**Extra Large**—9 to 11-inch circumference. Mailing weight, 10 lbs. per doz.
**Price,** 3 for 75c, prepaid; doz., $2.50; 25 for $4.50, not prepaid.

**Mammoth Size**—12-inch and up circumference. Mailing weight, 17 lbs. per doz.
**Each, 50c; 3 for $1.25, prepaid; doz., $4.25; 25 for $7.00, not prepaid.**

### Cinnamon Vine

**(Dioscorea Batatas)**

Well-known hardy climber; quick grower, with beautiful glossy heart-shaped leaves and sweet-scented flowers. Vines will run 25 to 40 feet in a season.

**Price, Medium Size Roots,** each, 10c; doz., $1.00; 100, $6.00, prepaid.
**Large Roots,** each, 15c; 3 for 40c; doz., $1,50; 25 for$ 2.50, prepaid.

# Miscellaneous Spring Bulbs—Continued

CALLA LILY

## Golden Yellow Calla Lily

**Calla Elliottiana (Yellow Calla Lily)** Though known during war period, bulbs have been so scarce and dear, the plant has not become generally known. We are now having many grown for us and can supply at very reasonable prices.

**Large Bulbs, 50c;** 3 for **$1.40;** doz., **$5.00,** prepaid.

## Ismene Calathina

**(Hymenocallis)**

Flowers are pure white, borne three or four on a stem, and are very fragrant. Not hardy.

**Price,** each, **20c;** doz., **$2.00, prepaid.**

## Gloxinias

These showy plants are easily grown in pots for summer or winter blooming. They make a glorious display and bloom for a long time. Plant the bulbs in small individual pots. The soil best suited should contain plenty of leaf-mold, some sand and well-rotted manure. Place the pots in a warm window and keep moderately moist, but do not water to excess. When the roots become crowded in the first pot, the plants should be transplanted into larger ones. Protect against direct strong sunlight. Just before the plants come into bloom an application of very weak liquid manure is of great benefit.

**Price,** each **40c;** 3 for **$1.00;** doz. **$4.00, prepaid.**

GLOXINIAS

HYACINTHUS CANDICANS

## Hyacinthus Candicans

**(Galtonias)**

**Summer Hyacinth**—Perfectly hardy and of vigorous growth. Flowers are pure white and pendulous, 4 feet high.

**Price, First Size,** each, **15c;** doz., **$1.50, prepaid; Mammoth Size,** each, **20c;** doz., **$2.00, prepaid.**

## Lily of the Valley

**Large Clumps**—For outdoor planting, clumps are best to plant. They do best in a shady, moist place. We especially recommend the clumps for outdoors; they give a quicker and better effect at less cost.

Each, **65c;** dozen, **$6.00; prepaid.**

## Madeira Vine

**(Boussingaultia Baselloides.)**

One of the best and most popular climbers for foliage effect. Increases very rapidly, large roots.

**Price,** each, **10c;** 3 for **25c;** doz., **90c;** 25 for **$1.75, prepaid.**

## Oxalis

**Summer-Flowering**—Useful little plants, very effective in masses or beds and particularly valuable for edgings. They produce an unbroken row of foliage about one foot high and continuous bloom. The colors are **white, red, pink.**

**Price,** either color, doz., **25c;** 25 for **40c;** 100 for **$1.50, prepaid.**

## Tigridia

**(Shell-flower of Mexico)**

Few flowers are more gorgeously colored or so beautiful. Plant in sunny positions in a flower border in well-drained soil. Put a little sand under the bulb. Can also be used in beds. Blooms from middle of July to September. Height, 3 ft.

**Mixed. Price,** each **20c;** doz., **$2.00;** 100, **$15.00, prepaid.**

## Ranunculus (Buttercup)

Plant in November for early spring bloom in frames. Set 3 or 4 inches apart, pressing firmly into the soil, claws downwards, and cover them with sand, then with soil; keep the crown of the tubers two inches under the surface. Water them well.

**Special Mixed.** Doz., **55c;** 100, **$3.50;** 1,000, **$30.00.**

MONTBRETIAS

## Montbretias

Mixed Montbretias are easily grown and their graceful flower-stems add much to any garden. They are also highly valued for cut-flowers and can be grown in flower-pots in the house. Montbretia bulbs are quite hardy and should be planted early in the spring, choosing a warm, sunny location. A sandy loam with good drainage, to which has been added some well-rotted stable manure, will give the finest flowers. When the plants come into flower, plenty of water should be given to help the free development of the flower-spikes. Our mixture contains many bright shades of yellow, salmon, orange, and scarlet.

**Special Mixed. Price,** each **10c;** 3 for **25c;** doz. **$1.00, prepaid.**

## Zephyranthus { Fairy Lily / Zephyr Lily

One of the prettiest and most easily grown bulbs. Plant in open ground like gladiolus bulbs.

**Candida**—Pure white and the most profuse bloomer of all.

**Price,** doz., **50c;** 25 for **75c, prepaid.**

**Rosea**—Beautiful clear rose; flowers large and very handsome.

**Price,** each, **15c;** doz., **$1.50;** 100, **$10.00, prepaid.**

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Kenosha, Wis., Aug. 3, 1931
Vaughan's Seed Store.
This spring I purchased some Gladjoli bulbs from you and the flowers are just gorgeous.
Mrs. Sanderson

TIGRIDIA

TUBEROSES

## Tuberoses, Double

**(Polianthes Tuberosa.)**

Easily recognized by its exquisite fragrance and beautiful flower-spikes, which are borne on long stems, making it an admirable cut-flower. If started in warm place in pots, and end of May moved to open ground, can be flowered much earlier.

### Excelsior Dwarf Pearl Double

**Mammoth Bulbs**—Each, **15c;** doz., **$1.50;** 25 for **$2.50, prepaid.**

**First Size**—Each, **10c;** doz., **$1.00;** 25 for **$1.50, prepaid.**

**Second Size—Price,** doz., **50c;** 25 for **$1.00, prepaid.**

### Single Varieties

**Armstrong's Ever-Blooming**—This variety blooms year after year and has a fragrance similar to the "Jasmine."

**Price,** each, **10c;** doz., **$1.00;** 25 for **$1.50, prepaid.**

**Silver-Leaved**—An early single flower, with striped leaves.

**Price,** each, **10c;** doz., **$1.00;** 25 for **$1.50, prepaid.**

**Albino**—Branching single variety, early and very free-flowering.

**Price,** each, **10c;** doz., **$1.00;** 25 for **$1.50, prepaid.**

**Mexican Tuberose**—They have tall, stiff stems, flowers pure white, single true tuberose fragrance.

**Price,** doz., **50c;** 25 for **$1.00, prepaid.**

ZEPHYRANTHUS

# Vaughan's Hardy Climbing Vines

Flower lovers and gardeners know how indispensable are Vines and Climbers for beautifying one's place, especially near the house. Plant Clematis, Climbing Roses and Honeysuckles about the front porches with perhaps a vine or two of the Chinese Wisteria to climb as high as the roof. Stone or brick walls are always prettier when ivy-clad. Then going around to the rear of the house, if you have a trellis to cover, or want a screen for certain buildings, get more Honeysuckle and if you need something to cover a large space quickly, try the Kudzu vine; the Trumpet Creeper is also good. The following are the best climbers for arbors, arches, trellises, porches, etc. Remember how pretty an arbor can be. Even grapevines make a good covering.

## ACTINIDIA

**Arguta (Bower A).** An excellent vine, with glossy, dark green, somewhat heart-shaped foliage. The white flowers are produced in July and are followed by greenish yellow, sweet edible fruits. 2-yr., 75c; per 10, $6.00.

## AKEBIA Quinata (Five-leaf Akebia)

A beautiful hardy Japanese vine, with unique foliage and chocolate-purple flowers of delightful fragrance in large clusters. The foliage is never attacked by insects, and is distinctly ornamental. Prefers a sunny situation. 2-yr., 60c; per 10, $5.00.

## AMPELOPSIS

**Engelmanii (Engelman's Ivy).** One of the hardiest, best and quickest growing climbers for the North and Northwest. Quite similar to the Virginia Creeper, but vastly superior to it, the foliage being cleaner, of greater substance and not turning yellow during the early fall, and almost perfectly free from insects. Leaves color beautifully in the fall. 2-yr., 50c; per 10, $3.50; 3-yr., 60c; per 10, $4.50.

**Heterophylla (Porcelain A.).** A handsome and refined climbing plant for use where a quick-growing, densely covered vine is desired. It is attractive all summer because of its ornamental, heart-shaped leaves, prettily incised, but is charming in autumn when its crop of berries turn a bright turquoise blue. 3-yr., 75c; per 10, $6.00.

**Quinquefolia (Virginia Creeper or Woodbine).** Luxuriant in growth, with handsome foliage turning to bright crimson in the fall. Very hardy vine for covering old tree trunks, walls or fences. 2-yr., 50c; per 10, $3.50.

## AMPELOPSIS Tricuspidata (Veitchi)

**(Japanese Creeper or Boston Ivy.)**

The grandest hardy climbing vine in existence for covering houses, churches, schools, etc. Its glossy, ivy leaves overlap each other, and its long, delicate young shoots stretch up the walls with free and rapid growth. The tendrils at nearly every point cling firmly to the smoothest surface of rock or brick. 2-yr., 60c; per 10, $5.00; 3-year, 75c; per 10, $6.50; pot-grown, 75c; per 10, $6.50.

## ARISTOLOCHIA Sipho (Dutchman's Pipe)

A vigorous and rapid-growing climber, bearing striking brownish colored flowers, resembling a miniature pipe in shape. Its large, rich, glossy, dark green, heart-shaped leaves give a tropical foliage effect and produce a splendid shade. It is very hardy and adaptable to practically every situation, thriving in any soil, in sun or shade. 2-yr., 85c; per 10, $7.50; pot-grown, $1.00; per 10, $8.50.

## BIGNONIA Radicans (Trumpet Creeper)

A robust tall climber with great leathery trumpet-shaped flowers of brilliant orange-scarlet which last a long time in the summer. A very rapid and hardy grower. Useful for covering unsightly places, stumps, or wherever a showy flowering vine is desired. 2-yr., 50c; per 10, $4.00.

## CELASTRUS (Bittersweet)

**Scandens (American Bittersweet).** A native climbing or twining plant with handsome large leaves; yellow flowers in May and June and clusters of ornamental orange-capsuled fruit in autumn. One of the most desirable climbers for shade. Strong 2-yr. vines, each, 60c; per 10, $5.00; 3-yr., 75c; per 10, $6.00.

## CLEMATIS PANICULATA

**(Sweet Autumn Clematis)**

The finest small-flowered Clematis extant. A wonderfully rapid grower, quickly covering trellises, arbors, etc. The flowers are pure white, deliciously fragrant and produced with the greatest freedom. It flowers in September when few other vines are in bloom. Easiest to grow and most popular of all the small-flowered vines. 2-yr., 60c; per 10, $5.00; 3-yr., 70c; per 10, $6.00; pot-grown, 75c; per 10, $6.50.

## LARGE-FLOWERING CLEMATIS

The Large-Flowered Clematis are the most beautiful of all our flowering vines. They should be pruned early in spring and require rich, deep soil, perfect drainage, abundance of water and should be planted with the crowns three inches beneath the surface of the soil.

**Henryi.** Strong grower, flowers always eight-petaled, 4 to 6 inches in diameter and pure white. Very hardy. 2-yr., $1.00; per 10, $9.00.

**Jackmanii.** This variety, with its strong, healthy growth, hardy nature and rich, deep velvety purple flowers, is the most satisfactory of its class. Blooms with astonishing profusion on shoots of the present season. 2-yr., $1.25; per 10, $11.00.

**Mad. Edward Andre.** Flowers large, of a very beautiful bright velvety red, very free-flowering, and continuous bloomer. 2-yr., $1.00; per 10, $9.00.

**Gold Medal Collection.** One 2-year-old root, each, Jackmanii, Henryi and Mad. Edward Andre, $3.00.

Can supply Large-Flowering Clematis in pot-grown plants after May 1st.

## VARIOUS SPECIES OF CLEMATIS

**Crispa (Curly C.).** Fine deep blue, with a white border and deliciously fragrant. Each, 75c; per 10, $6.00. Pot-grown after May 1st.

**Montana Rubens.** The rosy-pink, Anemone-like flowers of this species are very attractive and are produced in greatest profusion over a long period. Vigorious growing. An excellent early spring flowering climber. Each, 75c; per 10, $6.00.

**Texensis (Cocinnea) (Scarlet C.).** Bell-shaped flowers, bright coral-red; blooms from June until frost. Each, 75c; per 10, $6.00. Pot-grown after May 1st.

## HEDERA

**Helix Gracilis.** This variety has dark green foliage and is identical in habit with the well-known English Ivy, except that it is hardy and has smaller leaves. Succeeds well in shady places. Each, 75c; per 10, $6.00.

CLEMATIS Jackmanii

## LONICERA (Honeysuckle).

We cannot speak too highly of this class, for covering arbors, fences, pergolas, verandas, etc. They are the best vines for ground planting under trees, and if used on terraces or embankments will prevent washing. All are perfectly hardy and improve in beauty each year.

**Japonica Aureo-Reticulata (Yellownet Japanese Honeysuckle).** A handsome variety with foliage netted and spotted bright yellow; flowers creamy white. 2-year, 50c; per 10, $4.00.

**Heckrotti (Everblooming Honeysuckle).** Remarkable for large size and distinct appearance of its flowers, dark rich red and creamy yellow in color. Blooms continually the whole season. 2-yr., 90c; per 10, $7.50.

**Sempervirens (Trumpet Honeysuckle).** Fuchsia-like scarlet flowers, very free and beautiful. 2-yr., 60c; per 10, $5.00; 3-yr., 75c; per 10, $6.50.

## LONICERA Japonica Halliana

**(Hall's Japanese Honeysuckle).**

This is one of the finest of all vines that one can plant. It is attractive and thrives in practically all situations. Splendid on trellises, arches, porches, or for covering fences, poles or old dead or ugly tree trunks. It is a strong, vigorous almost evergreen sort, with pure white flowers, changing to yellow. Very fragrant, and covered with flowers from July to October; holds its leaves till January. The best bloomer of all. 2-yr., 50c; per 10, $4.00; 3-yr., 60c; per 10, $5.00.

## LYCIUM Chinese (Chinese Matrimony-Vine).

Well-known, hardy, fast-growing vine; handsome when covered with scarlet fruit in autumn. Commonly used as a trailer, and for a ground cover under trees and on terraces or any kind of steep slopes to hold the soil in place. Strong, 2-yr., each, 50c; per 10, $4.00.

## PERIPLOCA

**Graeca (Grecian Silkvine).** A hardy vine with brownish-purple flowers clothed in numerous short hairs resembling silk. The leaves are long, pointed, willow-like and their glossy nature makes them more attractive than the flowers. 2-yr., 60c; per 10, $5.00.

## POLYGONUM Auberti (Silver Lace Vine)

The plant is of strong, vigorous growth, attaining a height of 25 feet or more, producing through the summer and fall great foamy sprays of white flowers that turn rose-colored as they begin to fade, and the combination of white and rose makes an exceedingly pretty picture. This vine does well in the East, in the Middle West and the West. 2-yr., 90c; per 10, $7.50.

## PUERARIA Thunbergiana (Kudzu-Bean)

**or Jack-and-the-Bean-Stalk Vine**

The most remarkable climber extant. In rich soil will grow 70 feet in one season. Starts into growth slowly, but after three or four weeks grows almost beyond belief. Leaves in shape like Lima Bean; dark green; texture, soft and woolly. Fine for porches, arbors, old trees, etc. Strong roots each, 50c; per 10, $4.00.

## WISTERIA

**Frutescens Magnifica (Yellow-eye W.).** A strong, rapid-growing vine with light-green compound foliage of an evergreen nature and purple-lilac, pea-shaped flowers, borne in very dense, long, pendulous racemes in advance of the opening of the foliage. 2-yr., extra strong, 75c; per 10, $6.00; 3-yr., 85c; per 10, $7.50.

**Sinensis Purple (Chinese Wisteria).** A very strong-growing vine that climbs high and twines tightly. Blooms very profusely early in summer; flower sky-blue, in long, pendulous clusters. The plants we offer are grafts propagated from blooming wood. 2-yr., $1.00; per 10, $8.50.

**Sinensis Alba (White Chinese Wisteria).** Same as the Sinensis Purple except that the flowers are pure white. 2-yr., $1.00; per 10, $8.50.

## Vaughan's Nursery Catalog

LISTING and illustrating the most popular and meritorious ornamental shrubs, shade trees, small fruits, fruit trees, and vines, will be sent free on request. We sell to customers at one profit, and our prices are much lower than those you will pay to salesmen. Our nurseries are at Western Springs, Ill., eighteen miles west of Chicago, on the C. B. & Q. Railroad. The grounds are on Wolf road, two blocks south of W. Forty-seventh street.

# Shrubs—Rare, Ornamental

## 1932 is George Washington Bicentennial,

**All Prices are F. O. B. Our Nurseries, Western Springs, Ill.**

KOLKWITZIA Amabilis (Beauty Bush)

DAPHNE Cneorum

EUONYMUS Alatus Compacta

The figures in italics following each variety indicate in feet the average height of the plant at maturity.

### ACER

**Palmatum Atropurpureum (Red-Leaved Japanese Maple).** *6-8'.* Very striking as a specimen tree or small shrub on the lawn. The foliage is red in Spring, later changing to an attractive dark bronzy green. The plants we offer are of the true red variety. 18 to 24 in., $5.00; per 10, $4.50; 24 to 30 in., $6.00; per 10, $5.50; 2 to 2½ ft., specimens, $10.00.

**Platanoides Globosum (Globe Norway Maple).** An excellent form of the Norway Maple for lawn and formal effects. Clean, straight stems; branched at top forming a globe-shaped head. 6 ft. stems, $5.00.

### AZALEA

The Azaleas are among the showiest of ornamental shrubs, blooming in May and June. They thrive in moist, well drained, acid soils, and do not like lime. They should be planted in partial shade and kept mulched, preferably with peat moss. We advise planting only in Spring.

**Mollis (Chinese Azalea).** *3-4'.* One of the most glorious of the Azaleas, with flowers of marvelous shades of yellow, orange, lemon, salmon, and terra cotta. It is of dwarf, compact growth with attractive foliage and is unexcelled for planting in front of Evergreens. 12 to 18 in., balled and burlapped, $2.50; 18 to 24 in., balled and burlapped, $3.50.

### BERBERIS

**Thunbergi Atropurpurea (New Red-leaved Japanese Barberry).** *4'.* Similar in all respects to the green-leaved Japanese Barberry which is so popular, but the foliage is of a rich, lustrous, bronzy red, similar to the richest red-leaved Japanese Maples. It should be planted in full sun to develop its coloring. 12 to 15 in., each 60c; per 10, $5.00; per 100, $40.00; 15 to 18 in., each, 70c; per 10, $6.00; per 100, $50.00; 18 to 24 in., each, 80c; per 10, $7.00; 100, $60.00; 24 to 30 in., $1.00; per 10, $9.00.

### BUDDLEIA

**Alternifolia (New Hardy Butterflybush).** *4-6'.* A splended new Butterflybush that does not freeze to the ground in winter. It is one of the most charming and distinctive of our shrubs when from midsummer until late fall, its long arching branches are covered with attractive lilac-purple flowers. Very new and rare. 2-yr., 90c; per 10, $7.50.

### COTONEASTER

**Dielsiana (Diels Cotoneaster).** *6-10'.* A distinct variety of loose, semi-erect growth, but with graceful drooping habit. Small oval leaves and masses of red berries in fall. 2 to 3 ft., balled and burlapped, $1.50; 3 to 4 ft., balled and burlapped, $2.00.

**Divaricata (Spreading Cotoneaster).** *5-6'.* One of the best of the species, especially prized for its dark scarlet fruits which last until late in the autumn. It forms a wide-branched, densely twiggy bush from 5 to 6 ft. tall and much more in diameter. The small, oval, dark green leaves turn a brilliant shade of crimson before they fall. 18 to 24 in., balled and burlapped, 90c; per 10, $7.50; 2 to 3 ft., balled and burlapped, $1.50; per 10, $12.50; 3 to 4 ft., balled and burlappd, $2.00; per 10, $17.50. 3-in. pots, $1.00.

**Horizontalis (Rock Cotoneaster).** *1-1½'.* "Deservedly the most popular of the red-fruited varieties," says E. H. Wilson of the Arnold Arboretum. A dwarf shrub with densely spreading horizontal branches almost prostrate. On account of its habit, is much appreciated in rockeries and the front of borders, to display its crimsoning leaves and scarlet fruits deep into winter. 3-in. pots, $1.00; 18 to 24 in., balled and burlapped, $3.00.

**Racemiflora Soongarica.** *6-10'.* One of the most beautiful and best of the genus. Forms a broad rounded bush from 6 to 10 feet high and more in diameter; gray-green foliage. In September, each long graceful branch is completely covered with brilliant coral-red fruit. 2 to 3 ft., balled and burlapped, $2.00; per 10, $17.50; 3 to 4 ft., balled and burlapped, $2.25; per 10, $20.00.

### DAPHNE

**Cneorum (Rose Daphne).** *1'.* One of the loveliest of all plants and a gem for the rock garden or for edging borders. A dwarf evergreen shrub of trailing habit with leaves of dark glossy green, glaucus beneath. Small, tubular, rose-pink flowers of spicy fragrance are borne in clusters in May and again in late September. Does best in sun in a well-drained, poor gravely soil. In cold climates the plants should be protected during winter. 8 to 10 in., balled and burlapped, $1.50 each; per 10, $12.50; 10 to 12 in., balled and burlapped, $1.75; per 10, $15.00.

### CRATAEGUS

**Oxyacantha Splendens (Paul's Double Scarlet Hawthorn).** *12-15'.* The most beautiful and showy of the double-flowering thorns, with lovely blossoms of bright scarlet color, large, full and very double. It forms a small tree or large shrub and makes a fine specimen for the lawn. 3 to 4 ft., $1.75; per 10, $15.00; 4 to 5 ft., $2.50; 5 to 6 ft., $3.00; 6 to 7 ft., specimens, $5.00.

### ELSHOLTZIA

**Stauntoni (Heathermint).** *3-4'.* An excellent autumn flowering shrub producing attractive spikes of reddish purple flowers, resembling heather, in September and October. The leaves of the plant when bruised, emit a mint fragrance. Plant in a sunny location. 18 to 24 in., 90c; per 10, $7.50.

### EUONYMUS

**Alatus Compacta.** A very bushy, compact form of the Winged Euonymus that is especially attractive in the fall when the foliage turns an intense crimson, and the whole bush resembles a ball of fire. It is one of our finest shrubs for growing in shady places, for specimen plantings, or for formal effects as it may be kept trimmed to the size and height desired. The picture shows the natural habit of the shrub after ten or more years growth without pruning. 12 to 18 in., $1.00; per 10, $9.00; 18 to 24 in., $1.50; per 10, $12.50.

### HAMAMELIS

**Vernalis (Vernal or Winter-Blooming Witch-hazel).** *5-8'.* Blossoms as early as January and will continue to bloom for a long time, opening during the mild weather and closing when the temperature drops. The flowers come in greatest profusion, have a delightful spicy fragrance, and vary in color from bright yellow to shades of old gold, reddish brown and maroon. It gives the best results when planted in a sheltered place well open to the winter sun. 2 to 3 ft., $1.50; 3 to 4 ft., $2.00; 4 to 5 ft., $2.50.

### HYDRANGEA

**Quercifolia (Oak-leaved H.).** *3-5'.* The leaves of this unusual Hydrangea resemble a glorified oak-leaf. They are a dark green in summer, turning to a richest red in autumn. They will stand some shade and the smoky dusty city conditions and are well adapted to foundation or low border plantings. Its flowers are pinkish white, borne in upright clusters in June. 2 to 3 ft., $1.50; per 10, $12.50.

### JAPANESE FLOWERING CHERRIES

Probably no group of small-flowering trees attract more attention than the Japanese Cherries with their rose-like flowers. Thousands visit the large collection at Washington, D.C., annually. They will thrive in practically every state if planted in a fertile and well-drained soil and kept mulched for a few years.

**Fujizan (Mt. Fuji).** *20'.* A beautiful variety that produces an abundance of large double or semi-double, snow-white, fragrant flowers, about 1½ inches wide. Late flowering. 4 to 5 ft., $4.00.

**Kwanzan (Sekizan).** *20-25'.* Often called the handsomest of all the double-flowering cherries. It forms an upright spreading tree with gray bark and deep green leaves. Its flowers are very full and double, often two inches wide, and are a deep pink or old rose. 4 to 5 ft., $4.00; 5 to 6 ft., specimens, $6.50; 6 to 7 ft., specimens, $10.00.

**Shirofugen.** Extremely large, very double flowers borne in racemes of about 3 on long stems. Flowers open a pale pink, become white and then turn cerise. Late. 4 to 5 ft., $4.00.

**Sieboldi (Naden).** *20'.* A very popular late-flowering variety. The flowers, a deep blush-pink in color, are very large and produced in great abundance. A vigorous grower adapted for street or lane plantings. 4 to 5 ft., $4.00. 5 to 6 ft., specimens, $6.50.

**Yoshino (Yedoensis).** *30-35'.* A fast growing variety with single flowers borne in the greatest profusion. The buds are red opening pink to nearly white and appear in advance of the leaves. 4 to 5 ft., $4.00; 5 to 6 ft., specimens, $6.50.

**Special Offer:** one each Fujizan, Kwanzan and Sieboldi, 4 to 5 ft., for $8.50.

### JAPANESE WEEPING CHERRY

**Single Flowering.** An old favorite but always rare. Top grafted on straight stems. In the Spring it is covered with its rosy masses of blooms. 5 to 6 ft. stem, 2 year head, $4.00; 6 to 7 ft. stem, 3 year head specimens, $7.50.

**Double Flowering (New).** A distinct and beautiful form of the Weeping Cherry. Its double pink flowers are large and similar in size and color to those of the variety Kwanzan. 5 to 6 ft. stem, 1 year head, $5.00.

# and Flowering—Trees

## Plant a Tree as a Memorial

### KOLKWITZIA

**Amabilis (Beautybush).** *6-8′.* There are few flowering shrubs which can surpass this for beauty of form and flower. Its trumpet-shaped pink flowers, deep pink without, stained with yellow-brown on the lower throat and lip, are most freely produced, which fact, combined with its graceful contour, makes the plant a striking object in the shrubbery border. Grows from 6 to 8 feet tall and fully that wide. Absolutely hardy and reliable and makes a wonderful showing in June. One of E. H. Wilson's and the Arnold Arboretum's choicest new introductions from China. 18 to 24 in., not balled and burlapped, 90c; per 10, $7.50; 2 to 3 ft., balled and burlapped, $1.75; per 10, $15.00; 2 to 3 ft., not balled and burlapped, $1.25; per 10, $10.00; 3 to 4 ft., balled and burlapped, $2.50; per 10, $22.50; 3 to 4 ft., not balled and burlapped $1.75; per 10, $15.00; 4 to 5 ft., specimens, balled and burlapped $3.50.

### MAGNOLIA

**Soulangeana.** *20′.* A vigorous grower and one of the hardiest of the genus. Flowers come before the long glossy leaves, and are 3 to 5 inches across, cup-shaped, delightfully fragrant, rosy-pink when in bud, pure white when open. A full-sized tree is a gigantic bouquet of thousands of showy flowers, not surpassed by any other tree in effectiveness. 2 to 3 ft., balled and burlaped, $10.00; 3 to 4 ft., balled and burlapped, $12.50. 4 to 5 ft., balled and burlapped, $15.00; 5 to 6 ft., balled and burlapped, $25.00.

**Stellata (Star M).** *12′.* The first Magnolia to blossom. No plant flowers more freely and in early spring its semi-double, snow-white flowers of starry form appear in countless numbers and attract attention on all sides. Still rare and seldom seen in gardens. 2 to 3 ft., balled and burlapped, $15.00.

### LONICERA

**Korolkowi Floribunda (Broad Blueleaf Honeysuckle).** *10′.* A most attractive variety of twiggy growth, arching in habit, and with a mass of gray-green foliage. The great masses of delicate pink flowers are very beautiful, being carried high on the plants and producing a misty effect. Dark red fruits. 2 to 3 ft. 90c.

### MALUS (Flowering Crab)

**Atrosanguinea (Carmine Crab).** *10-15′.* Similar to Floribunda, but with deep carmine flowers which do not fade. 3 to 4 ft.; 4 to 5 ft.; 5 to 6 ft.

**Baccata (Siberian Crab).** *20-30′.* One of the earliest of the flowering Crabapples, producing quantities of white, fragrant flowers followed by small reddish fruit. Fast, upright grower; good foliage. 3 to 4 ft.; 4 to 5 ft.; 5 to 6 ft.; 6 to 8 ft.; 6 to 8 ft., specimens.

**Bechtel's Double-Flowering.** *10-15′.* Trees of medium size are covered in early spring with large, beautiful, double, fragrant flowers resembling small roses of a delicate pink. 3 to 4 ft., $1.75; per 10, $15.00; 4 to 5 ft., $2.50; per 10, $22.50. 5 ft. specimens, $5.00; 6 ft. specimens, $8.00; 8 ft., specimens, $15.00.

**Coronaria (Wild Sweet Crab).** *15-20′.* A low bushy tree with spreading spiny branches. Very fragrant pink flowers produced in clusters. The yellow-green fruit is fragrant and is frequently used for preserves. 3 to 4 ft., $1.25; per 10, $10.00; 4 to 5 ft., $1.75; per 10, $15.00; 5 to 6 ft., $2.25; per 10, $20.00; 6 to 8 ft., specimens, $5.00.

**Floribunda (Japanese Flowering Crab).** *10-15′.* Best when grown naturally, when it is a broad, tall, round-topped bush, rather than a tree, with wide-spreading branches. The flowers as they open are red, changing to rose and white. The small, yellowish fruit often remains on the trees all winter and is greatly relished by the birds. 3 to 4 ft.; 4 to 5 ft.; 5 to 6 ft.; 6 to 8 ft., specimens.

**Niedzwetzkyana (Redvein Crab).** *10-15′.* A showy tree with remarkable single red flowers followed by red fruits about one inch in diameter in October. Bark and wood are tinged with red. 3 to 4 ft.; 4 to 5 ft.; 5 to 6 ft.

**Scheideckeri (Scheidecker Crab).** *10-15′.* A very showy and early, free-flowering variety, with double, bright rose-colored blooms. Tree small, of pyramidal habit; fruit yellow and good for jelly. 4 to 5 ft.; 5 to 6 ft.

**Price of above,** except where noted, 3 to 4 ft., each, $1.50; per 10, $12.50; 4 to 5 ft., $2.00; per 10, $17.50; 5 to 6 ft., $2.50; per 10, $22.50; 6 to 8 ft., $3.00; 6 to 8 ft., specimens, $8.00. Sizes which we have to offer, noted after each variety.

### PHILADELPHUS (Mock Orange)

**Banniere.** *5-6′.* The earliest flowering of the Philadelphus, blooming 10 day before Virginal. Very fragrant, semi-double, waxy-white flowers of large size. Erect and compact in growth with dark green foliage. 2 to 3 ft., 90c; per 10, $7.50.

**Dame Blanche (White Lady).** *4′.* Small foliage and upright branches to about four feet. Semi-double fringed flowers, creamy white and very fragrant. 18 to 24 in., 75c; per 10, $6.00; 2 to 3 ft., 90c; per 10, $7.50.

**Favorite.** *7-8′.* Large single, cup-shaped flowers, 3 inches wide, in clusters of five; pure white with golden stamens. Of erect, compact growth; foliage light, glossy green. 2 to 3 ft., 90c; per 10, $7.50; 3 to 4 ft., $1.00; per 10, $8.50.

**Glacier.** *5′.* Very attractive double, rich cream color flowers, produced in clusters, giving the effect of one enormous flower. Matures to a height of five feet. 2 to 3 ft., 90c; per 10, $7.50.

**Norma.** *7-8′.* Unusually large, glossy white, single flowers in good sized sprays. An upright grower with light green leaves. 18 to 24 in., 75c; per 10, $6.00; 2 to 3 ft., 90c; per 10, $7.50.

**Pyramidalis.** *8-10′.* Waxy white clusters of large, double flowers. Of tall, compact, pyramidal g owth with large dark green leaves. 2 to 3 ft., 90c; per 10, $7.50; 3 to 4 ft., $1.00; per 10, $8.50.

**Virginalis.** *7-8′.* One of the most beautiful shrubs grown. In June the plants appear as a huge bouquet, being completely covered with very large, double crested flowers that are pure white, sweet-scented and produced in clusters of five to seven. It has the longest blooming season of any variety, the new wood producing throughout the summer, large individual, single or semi-double flowers that are often three inches wide. Of vigorous, medium tall, compact growth and large dark green foliage. 2 to 3 ft., 75c; per 10, $6.00; 3 to 4 ft., 90c; per 10, $7.50; 4 to 5 ft., bushy, $1.50; per 10, $12.50; 4 to 5 ft., specimens, $2.50.

**SPECIAL OFFER.** One each of the above seven varieties of Philadelphus, 2 to 3 ft. size, for $5.00.

### PYRACANTHA

**Coccinea Lalandi (Laland Firethorn).** *5-6′.* An almost evergreen shrub allied to both the Thorn and Cotoneasters. Dwarf grown with slender branches with numerous short thorns. Flowers white, in large clusters, followed in fall by brilliant orange-red berries. It is one of our finest berried shrubs that thrives in almost any soil. Perfers a sunny location. 18 to 24 in., balled and burlapped, $2.50; per 10, $22.50; 2 to 2½ ft., balled and burlapped, $3.25; per 10, $30.00.

JAPANESE FLOWERING CHERRY

### NEW HYBRID RUGOSA ROSES

**Agnes.** *5-6′.* A new yellow Rugosa Rose of exceptional merit. The flowers are a rich amber yellow, double, sweetly scented and come early in June. It is a vigorous grower with gray-green, crinkled foliage. 2-year, $1.25; per 10, $10.00.

**F. J. Grootendorst.** *5-6′.* A cross between the Rugosa and the Crimson Baby Rambler. The plant is vigorous, will attain a height of six feet. The flowers are an attractive bright red, are beautifully fringed, and produced in clusters. It is perfectly hardy, blooms from early summer until frost, 2 year, 75c; per 100. $6.00.

**Pink Grootendorst.** *5-6′.* A variety similar in every way to the F. J. Grootendorst except that the flowers are a clear pink. 2-year, 75c; per 10, $6.00.

**SPECIAL OFFER.** One each of the above three Rugosa Roses for $2.25.

### ROSA HUGONIS (Golden Rose of China)

**Rosa Hugonis (Golden Rose of China).** *6′.* This is one of the earliest roses to bloom and it makes a very spectacular show when the long arching branches are thickly set with lovely single yellow flowers in May. Attains a height of six feet when fully matured. It never winter-kills. 2-year, 90c; per 10, $7.50; 3-year, $1.25; per 10, $10.00; 4 year, $1.50; per 10, $12.50; 4 year, specimens, $2.50.

### SYRINGAS (Lilacs) New and Rare Varieties

***Berryer.** Double, long trusses of semi-double mauve flowers. 2 to 3 ft.; 3 to 4 ft.

***Buffton.** Single; elegant cluster of flowers, mauve-pink with reflexed lobes. 18 to 24 in.; 2 to 3 ft.; 3 to 4 ft.

***Claude Bernard.** Double, a rapid-growing variety with long trusses of double or semi-double bright mauve lilac flowers; very early. 2 to 3 ft.; 3 to 4 ft.; 4 to 5 ft.; 4 to 5 ft., specimens.

***Descartes.** Single, mauve-pink; exceedingly free. 2 to 3 ft.; 3 to 4 ft.

**Diderot.** Single, enormous panicles, one foot long, with large claret-purple flowers; very free. 18 to 24 in.

**Edouard Andre.** Double; clear rose or nearly pink, one of the best of this color. 18 to 24 in.; 2 to 3 ft.

**Emile Gentil.** Double; large imbricated flowers, bright cobalt-blue; a very rare shade among lilacs. 2 to 3 ft.

**Jean Mace.** Double, broad, compact panicles, irregular flowers, mauve, fading to bluish, an early and very floriferous variety. 2 to 3 ft.; 3 to 4 ft.; 4 to 5 ft.

**Leon Gambetta.** Double; enormous trusses; very large, lilac-rose flowers, very pretty; early. 18 to 24 in., $2.00; 2 to 3 ft., $2.50.

***Louvois.** Single; voluminous clusters of large flowers, deep violet-purple with bluish shades. 2 to 3 ft., 3 to 4 ft.

**Marechal Lannes.** Very broad panicles of double or semi-double flowers of amazing size; bluish violet. 2 to 3 ft.; 3 to 4 ft.

***Mireabeau.** Single; mauve, the earliest of all. 2 to 3 ft.; 3 to 4 ft.; 4 to 5 ft.

**Montaigne.** Double. Pinkish mauve, very large clusters. 2 to 3 ft.

**President Faillieres.** Double; immense clusters, pale lavender. 18 to 24 in. $2.00; 2 to 3 ft., $2.50.

The varieties marked * belong to a new class of Lilacs, the "Early Lilacs," which expand their flowers before the lilacs now known.

**Price of above,** except where noted, 18 to 24 in., each $1.50; per 10, $12.50; 2 to 3 ft., each, $2.00; per 10, $17.50; 3 to 4 ft., $2.50; per 10, $22.50; 4 to 5 ft., $3.00; per 10, $27.50; 4 to 5 ft., specimens, $5.00. Sizes which we have to offer noted after each variety.

### Outstanding Lilac Novelties

**Jan Van Tol.** Single, pure white, very large trusses and extremely large individual flowers; it is a very good grower and flowers very freely. 2 to 3 ft., $2.00.

**Katherine Havemeyer.** Double, cobalt blue, flushed mauve; enormous flower of the most perfect shape with broad imbricated lobes. One of the handsomest lilacs. 2 to 3 ft., $3.00.

**Mrs. Edward Harding.** Double, bright carmine, big panicles of large, full flowers. This variety was awarded the special prize founded by Mrs. Edward Harding for the best double red lilac. 2 to 3 ft., $3.00.

**President Poincare.** Immense, double violet flowers in large compact trusses. One of the handsomest of all Lilacs. Very fragrant. 2 to 3 ft., $3.00.

**SPECIAL OFFER.** One each of the above four Lilacs for $8.00.

### VIBURNUM

**Carlesi (Fragrant V.)** *4′.* This dwarf, compact shrub, bearing large corymbs of delicate pale rose blossoms, tinted white, has a delicious, clove-scented fragrance quite surpassing any shrub we know of, and is considered by the Arnold Arboretum as Korea's great gift to our gardens. Hardy, but best planted in a somewhat sheltered position. 15 to 18 in., balled and burlapped, $2.00; 15 to 18 in., not balled and burlapped, $1.50; 18 to 24 in., balled and burlapped, $2.50; 18 to 24 in., not balled and burlapped. $2.00; 24 to 30 in., balled and burlapped, $5.00; 2½ to 3 ft., specimens $6.50.

# Books on Garden Subjects

**ADVENTURES IN DISH GARDENING. By Patten Beard.** 220 pages, with four 4-color plates and 65 full-page halftones. Imitation leather.....$2.50
Patten Beard is always freshly original in all her writing. Here, however, she gives a new craft that is one made with Nature's own materials of stones, clay and growing things.

**THE BOOK OF ANNUALS. By Alfred C. Hottes.** 155 illustrations, 182 pages. Cloth.....$1.50
Contents:—The Uses of Annuals; Ordering Seeds; Classes of Annuals; Seed Sowing; Transplanting; Pinching; The Hoe vs. The Hose; Watering vs. Sprinkling; Annuals and Shades; Fall Sowing and Self-Sown Annuals; Hotbeds and Coldframes; Annual Flowers and Their Uses.

**THE BOOK OF BULBS. By F. F. Rockwell.** 187 Illustrations, 264 pages.....$2.00
With this complete and practical book you can get the utmost in beauty from every kind of bulbous plant. Clearly written by one who knows; illustrated with 187 beautiful photographs and instructive drawings. Includes tulips, daffodils, hyacinths, lilies, crocuses, glads, dahlias, peonies, irises, begonias, and scores of other beautiful but not-so-well-known bulbs. We recommend it as the best and most complete bulb book.

**CITY AND SUBURBAN GARDENING. By Chesla C. Sherloch.** 155 Illustrations. 196 pages. Cloth.....$2.00
An inspiring book, written from personal, practical experience by an energetic writer on many subjects, but never more interesting than when he is writing on gardening, in the practice of which he is an expert.

**COMMON GARDEN PESTS. What They Are and How to Control Them. By Gregory and Davis.** Illustrated. 150 pages. Paper.....$0.50
Recognizing Plant Pests. Discusses Nature of Fungi—Nature of Insects—Various Types of Sprayers—How Insects Live and Grow, etc.

**DAHLIA CULTURE, A LITTLE BOOK OF MODERN. By W. H. Waite.** 134 pages, 6 full page, color plates and 24 half tones.....$1.50
A book for the person who wants to grow better Dahlias by a man who is doing it. It treats on situation, soil types, cultivation and all the details of growing Dahlias, propagating them, exhibiting them and enjoying them.

**FLOWERS OF THE WILD. By Frank C. Pellett.** 168 pages, 4 full-page color plates and 104 half-tones. Cloth.....$2.00
Covers most of the common wild flowers suited for naturalization or cultivation in the Northeastern States and the best of them from the West.

**THE GARDEN GUIDE.** 388 pages. 106 halftones, 164 sketches. Paper.....$1.00
Cloth..... 1.50
Written especially for the owner of a modest home. The material is presented by 11 different authors, each an expert in his field. Covers the entire place—lawns, walks, trees, shrubs, flowers, bulbs, vegetables, fruits, pests, diseases, transplanting, pruning, propagation, fertilizers, insects, etc.

**FERTILIZERS. By E. B. Voorhees, revised by S. B. Haskell.** 27 Illustrations, 310 pages. . .$2.50
Presents usable plans for the fertilizing of flowers, lawns, garden and field crops. Tells how to judge an analysis guarantee, how to reduce to workable terms, and how to plan and calculate the ingredients for a specific mixture.

**GARDEN LILIES. By Isabella Preston.** Illustrated. 128 pages. Cloth.....$1.25
This book has been written to help amateurs grow as many species as possible and particularly to raise varieties from seed. Preparation of the soil, planting the bulbs and general care are described in detail.

**GARDEN POOLS: LARGE AND SMALL. By Ramsey and Lawrence.** 41 Illustrations. 122 pages.....$2.50
Nothing else can add so much to your garden as a pool, even if it is only a transformed wash tub in the tiniest garden space. How to have one is fully explained in this new book. Its text is so complete and its illustrations are so numerous and practical that you can easily find the type of pool that fits in your garden and learn all about designing, planting and caring for it.

**GARDENING UNDER GLASS. By F. F. Rockwell.** 85 illustrations. 304 pages.....$2.50
Through the agency of a small greenhouse you can have fruits and vegetables of superb quality out of season, Roses and Carnations in midwinter. Palms and Ferns all the year around.

**HOW TO GROW ROSES. By Pyle, McFarland and Stevens.** 210 pages, 32 plates in full color, 32 half-tones, and other illustrations.....$2.00
Makes every step in the culture and care of roses so clear that any grower can understand it and succeed with them. A completely re-written edition of America's most popular rose book.

**LANDSCAPING THE HOME GROUNDS. By L. W. Ramsey.** 175 illustrations, 170 pages. Cloth.....$2.00
Step by step with photographs and plans that make each point clear, this new book shows just how to develop your home grounds for greatest beauty. Each of the 175 illustrations tells a story or teaches an important lesson at a glance.

**MILADY'S HOUSE PLANTS. By F. E. Palmer.** Illustrated. 176 pages. Cloth.....$1.25
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# Vaughan's High-Grade Fertilizers

## Prices F. O. B. New York

### VAUGHAN'S BALANCED PLANT RATION (5-8-7)

**Five per cent nitrogen; eight per cent phosphoric acid; seven per cent potash.**—This is a balanced fertilizer, chiefly composed of organic matter (bone, blood and potash) which has been used for 50 years with excellent results by florists, truck gardeners and amateurs, and which we recommend as balanced fertilizer for all around use in the home garden.

For lawns, use 20 to 40 lbs. per 1,000 square feet; and for cultivated gardens, 4 to 6 lbs. per 100 square feet. As liquid manure, use 1 part to 30 parts of water.

Price, 5 lbs., 50c; 10 lbs., 90c; 25 lbs., $1.50; 50 lbs., $2.50; 100 lbs., $4.00; 500 lbs., $17.50; 1000 lbs., $30.00; 2000 lbs., $55.00.

**Adco Artificial Stable Manure.** Make it yourself, in your own garden. To each ton of straw, hay, cornstalks or dried leaves add 150 lbs. Adco to make four tons of fresh or three tons of rotted manure. Adco contains nothing injurious to health or harmful to animal or plant life. Shipments accompanied by full directions. Price, 25 lb. bag, $2.00; 150 lbs., $10.50. Write for booklet.

**Sulphate of Ammonia.** Used for its Nitrogen. A very desirable fertilizer for all plants in which a large leaf development or rapid growth is desired. It tends to create an acid reaction in soil. Do not let it touch green growth. Use 1 pound to 50 square feet.

Price, 25 lbs., $1.75; 50 lbs., $3.00; 100 lbs., $5.00; 500 lbs., $24.00.

**Hardwood Ashes.** Imported Canadian. Rich in potash and containing all of the fertilizing elements except nitrogen. Is used on the lawn at the rate of a ton or more per acre as a first application, and annual dressing of three hundred pounds afterwards.

Price, 25 lbs., $1.25; 50 lbs., $2.00; 100 lbs., $3.50; 500 lbs., $15.00; 1000 lbs., $26.50; 2000 lbs., $50.00.

**Bone and Blood.** Tankage. For Cabbage, Cauliflower, Corn and other crops of big surface growth not desirable for root crops except it is used in connection with potash salts, or hardwood ashes, and if so used it is especially adapted to fruits, if applied early. For garden crops use 500 lbs. per acre. Price, 25 lbs., $1.75; 50 lbs., $3.00, 100 lbs., $5.00; 500 lbs., $20.00; 100 lbs., $35.00; 2000 lbs., $65.00.

### VAUGHAN'S "ROSE GROWER" BONE MEAL AND SUPERPHOSPHATE

This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid, and a superb article. It is made from bone accumulated in large slaughter houses, and should not be compared with the Bone Meal made from cattle heads and feet gathered upon the Western prairies. Our "Rose Grower" Bone has been slightly steamed to soften it and is thus quicker in its action. Analysis: Nitrogen 2 per cent; total phosphoric acid, 20 per cent. Price 5 lbs 55c; 10 lbs., $1.00; 25 lbs., $1.50; 50 lbs., $2.50; 100 lbs., $4.75; 500 lbs., $20.00; 1000 lbs., $36.50; 2000 lbs., $70.00.

REGULAR BONE MEAL.—Price, 25 lbs., $1.40; 50 lbs., $2.40; 100 lbs., $4.50; 500 lbs., $17.50; 1000 lbs., $30.00; 2000 lbs., $62.50.

**Dried Blood.** For top-dressing, for mixing with the soil, and for applying in liquid form, it is one of the best and safest nitrogenous fertilizers. It is splendid for roses, carnations, chrysanthemums and all kinds of pot plants.

Price, 100 lbs., $6.00; 500 lbs., $22.50; 1000 lbs., $40 00; 2000 lbs., $75.00.

**Shredded Cattle Manure.** Manufactured by special process from selected fresh cleanings from cattle pens. There is no offensive odor, and when spread on lawn and garden it works down into the soil so that there is no refuse to blow about or be raked off when the growing season begins.

Price, 100 lbs., $4.25; 500 lbs., $20.00; 1000 lbs., $35.00; 2000 lbs., $65.00.

**Clay's Fertilizer.** This valuable imported manure is especially recommended to all who grow either fruit, flowers or vegetables, and wish to bring them to the highest perfection. It should also be used in potting soil as a top-dressing

Price, 7 lbs., $1.25; 14 lbs., $2.00; 28 lbs., $3.50; 56 lbs., $6.50; 112 lbs., $12.00.

**Super Phosphate.** Twenty per cent available. Bone phosphate the most available form. Used on grain crops and others requiring an excessive amount of phosphoric acid.

Price, 25 lbs., $1.00; 50 lbs., $1.50; 100 lbs., $2.25; 500 lbs., $10.00; 1000 lbs., $17.50; 2000 lbs., $32.00.

### SPECIAL TRUCK AND FARM MANURE 5-8-3

This is a good grade of concentrated Manure, suitable for **lawns and flowers** as well as vegetables mentioned below. It is of exceptional value and will prove a **money maker** to every farmer or gardener who uses it.

Price, 25 lbs., $1.25; 50 lbs., $2.00; 100 lbs., $3.50; 500 lbs., $15.00; 1000 lbs., $27 50; 2000 lbs., $50.00.

### THOMPSON'S "SPECIAL" TOP-DRESSING MANURE.

**Also called "Chrysanthemum" Manure.** An excellent stimulating manure for top dressing for Chrysanthemums and similar plants. It is entirely soluble and very powerful, especially suitable for top-dressing plants in pots during the growing season. **A heaped dessert spoonful will be sufficient for a ten-inch pot,** sprinkled over the surface of the soil and watered in with tepid water. This may be given three times during the growing seasons. Best results will follow. Price, 7 lbs., $1.00; 14 lbs., 1.75; 28 lbs., $3.00; 56 lbs., $5.50; 112 lbs., $10.00.

### THOMPSON'S VINE, PLANT AND VEGETABLE MANURE.

**So compounded as to combine stimulating with lasting effects.** A safe and reliable food and stimulant for every fruit-bearing plant, for foliage and flowering plants, for vegetables and outdoor plants of every description; admirably adapted for mixing with the soil when potting **in the proportion of 4 lbs. to each wheelbarrow of soil.** Price, 14 lbs., $1.75; 28 lbs., $3.00; 56 lbs., $5.50; 112 lbs., $10.00.

**Leaf Mold.** Eor correcting of clayey and sandy soil conditions.

Price, 100 lbs., $2.00; 1000 lbs., $17.50; 2000 lbs., $30.00.

**Loma.** Beautifies lawns and gardens, a scientifically prepared plant food for lawns, flowers, vegetables, shrubbery and potted plants. Rich in Nitrates, Phosphates and Potash.

Price, 1 lb., 25c; 5 lbs., 50c; 10 lbs., 85c; 25 lbs., $1.75; 50 lbs., $3.00; 100 lbs., $5.00.

**Muriate of Potash.** Imported Potash, once again available, should be used liberally, especially for all root crops.

Price, 25 lbs., $1.75; 50 lbs., $3.00; 100 lbs., $5.00.

### Vaughan's Lawn and Garden Fertilizer (5-8-6)

**Five per cent nitrogen; eight per cent phosphoric acid; six per cent potash.**—This mixture differs from our balanced plant ration, in that it is composed of plant foods in mineral form. The advantages of mineral fertilizer include the absence of objectionable odor, and the quality of being more readily soluble, which makes it more quickly effective upon plant growth. This is an excellent mixture for regular use in the garden plot in small quantities to insure vigorous growth.

For a new lawn, broadcast evenly 30 to 40 lbs. per 1,000 square feet. To stimulate an old lawn, apply 20 to 30 lbs. per 1,000 square feet, and during the growing season, wash it down immediately with the hose to prevent burning. For flowers and vegetables, use from 4 to 6 lbs. per 100 square feet.

Price, 5 lbs., 50c; 10 lbs., 90c; 25 lbs., $1.50; 50 lbs., $2.50; 100 lbs., $4.50 500 lbs., $20.00; 1000 lbs., $35.00; 2000 lbs., $65.00.

**VAUGHAN'S CONCENTRATED PLANT FOOD.** A most useful Fertilizer for all kinds of plants raised in pots. It produces a rapid and vigorous growth and an abundance of flowers. It is entirely free from objectionable odor and may be used in powder form or dissolved in water to make liquid fertilizer It contains all the chemical elements known to be of value as plant food.

Package containing food for 20 plants for 3 months; large package containing sufficient plant food for one year. Directions in package. Small packages, each, 20c, if by mail, 25c; large packages, each, 30c, if by mail, 35c.

**Pulverized Limestone.** Is a neutralizer for soil acidity, also improves the texture of the soil and liberates nitrogen and other plant food, and stimulates bacterial action. Apply after the land is plowed or dug for a crop, scattering with a lime distributor, 2 tons or more per acre, or by hand in small gardens—about a large handful to a square yard. Price, 100 lbs., $2.00; 500 lbs., $7.50; 1000 lbs., $12.00; 2000 lbs., $20.00.

**Hydrated Lime.** Price, 5 lbs., 25c; 50 lbs., $1.00; 100 lbs., $1.75; 500 lbs., $7.00; ton, $18.00.

**Bloom Aid Tablets.** Best for potted plants; bury each tablet about one inch down in the soil; they disintegrate rapidly; use two tablets for 4 inch pot. Directions enclosed in each package. Price per package of 125 tablets 25c; by mail 30c.

**Bloom Aid Liquid Form.** Quickest in action for feeding sickly and backward plants. 8 oz., bottle 50c; by mail 60c. Full directions on bottle.

**Bloom Aid.** Is a food for hungry plants, a complete nourishment for plants, flowers, shrubs, vegetables, trees, and lawns. Carefully blended to contain the right forms and proportions of Nitrogen, Phosphoric Acid, and Potash. Price 1 lb., 25c; 5 lbs., 50c; 10 lbs., 85c; 25 lbs., $1.75; 50 lbs., $3.00; 100 lbs., $5.00.

**Nitrate of Soda or Chili Saltpeter.** Nitrate of Soda is not a substitute for other Manures, but one of the cheapest and best forms in which to apply Nitrogen to plants. Do not let nitrate touch green growth or it will burn. Remove the lumps before using and break them up, which can be done by pounding.

For the Home Garden apply as a solution one ounce to two gallons of water.

Price (subject to market changes), 5 lbs., 50c; 10 lbs., 85c; 25 lbs., $1.50; 50 lbs., $2.75; 100 lbs., $5.00; 500 lbs., $22.00.

Write for prices on larger quantities.

**Nitrophoska.** A highly concentrated inorganic fertilizer clean and odorless. 15 per cent Nitrogen, 30 per cent phosphoric acid and 15 per cent Potash. 1 lb., 25c; 5 lbs., 90c; 10 lbs., $1.50; 25 lbs., $2.75.

Write for prices on larger quantities in original bags.

**Scotch Soot (Genuine Imported).** Gardeners know the value of the genuine article for stimulating a healthy growth of dark green foliage, and its beneficial effect in freeing the soil from slugs, grubs and cut-worms.

Price, 25 lbs., $1.75; 50 lbs., $3.00; 100 lbs., $5.00; 500 lbs., $22.00.

### VAUGHAN'S SHEEP MANURE

This is a pure, natural Manure, and its effect is immediate; it is excellent for mixing with the soil for greenhouse plants—one part manure and six parts soil. Strewn over and dug into the vegetable garden or placed directly in drills or hills, it promotes a rapid, steady growth until maturity. It makes the richest, safest and quickest Liquid Manure. For use in liquid form, one pound to five gallons of water will make a liquid which can be used with safety daily if necessary. Price, 5 lbs., 50c; 10 lbs., 90c; 25 lbs., $1.65; 50 lbs., $2.25; 100 lbs., $3.75; 500 lbs., $16.25; 1000 lbs., $30.00; 2000 lbs., $55.00.

**HORN SHAVINGS.** These are largely used by florists on such plants as Fuchsias, Geraniums, etc., and in the large vases in Parks and Cemeteries, to supply food after the natural fertility of the soil is exhausted. Price, 25 lbs., $2.25; 50 lbs., $3.75; 100 lbs., $6.50; 500 lbs., $30.00.

**HUMUS.** Recommended for top dressing or use on heavy clay soils. Price, 100-lb. bags, $2.50. Ask us for prices on larger quantities.

**PURE RAW BONE, Coarse Ground.** Excellent material for vine borders or greenhouse benching. Also all bulbs, indoors and outside. Fine for roses. High analysis. Price, 100 lbs., $4.50; 500 lbs., $20.00; 1000 lbs., $35 00; 2000 lbs., $65.00.

**Granulated Peat Moss.** A moisture-retaining humus, an important aid in saving soil fertility, better than manure. Bale of about 20 bushels, $3.50. Garden size bale, $1.50.

**Vigoro.** Is a specially prepared plant food. It contains all of the elements necessary to grow flowers, lawns, vegetables, shrubbery and trees. Complete directions in every bag. Price, 5 lbs., 60c; 25 lbs., $2.00; 50 lbs., $3.75; 100 lbs., $5.00.

**Floranid Urea.** A highly concentrated inorganic fertilizer containing 46 per cent available nitrogen, clean, odorless, stainless, for flowers, vegetables, berries, shrubs, lawns, ornamental and fruit trees; 92 times stronger than manure. Price, lb. can, 25c; 5 lbs., 90c; 10 lbs., $1.50; 25 lbs., $2.75 in original bags.

Write for prices on larger quantities in original bags.

# Insecticides and Fungicides

## Unmailable—Insecticides Containing Poison CANNOT be Sent by Mail—by Express Only

ANTROL. Sets containing 4 jars and 4-oz. bottle of syrup, price, 95c; extra jars each, 15c. 4 oz. bottle syrup, 45c. Pint bottle of syrup, 95c; gal., $3.75.

ANT EXTERMINATOR. Non-poisonous powder which, if scattered about their haunts or runs, will kill or drive away ants from lawns, etc. (We do not send this outside of States of Illinois and New York.) Per box, 40c; smaller size, 25c; by mail, 5c extra.

APHINE. 1 pt., 75c; 1 qt., $1.00; 1 gal., $3.00.

BLACK LEAF 40, is a solution of Nicotine Sulphate. It is highly recommended by Experiment Stations throughout the United States as a spray for soft bodied sucking insects. For spraying only. Directions must be followed carefully: 1 oz. bottle, 35c; ½ lb. can, $1.25, makes 40 to 100 gallons; 1 lb. bottle, $2.50, makes 40 to 200 gallons; 2-lb. can, $3.75, makes 200 to 500 gallons; 5 lb. can, $7.00, makes 400 to 1000 gallons; 10-lb. can, $11.85, makes 840 to 2100 gallons.

LIME SULPHUR. (Solution.) The best remedy for San Jose scale. One gallon makes twelve. Per qt. can, 45c; 1 gal., $1.00; 5-gal. can, $4.00. Write for prices in barrel lots.

DRY LIME SULPHUR. For dormant spray use 12 to 15 lbs. to each 50 gals. of water. For summer spray, 3 to 4 lbs. to each 50 gals. of water. Lb., 35c; 5 lbs., $1.50; 25 lbs., $4.50; 100 lbs., $12.50.

BORDEAUX MIXTURE. (Dry.) The best fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab or other fungoid diseases on fruits and plants. 1 lb. will make 5 gallons liquid. Lb., 40c; 4 lbs., $1.50; case of 24 lbs., $5.25.

CALCIUM, ARSENATE. (Dry.) Lb., 50c; 4 lbs., $1.50.

CARBON DISULPHIDE. For ants and cut worms. 1 lb., 50c; ¼ lb., 25c.

DERRISOL. Is an odorless nonpoisonous liquid, which will control sucking insects like aphis, thrips, leaf hoppers and red spiders, also controls currant worms and other leaf-eating larvae. Oz., 35c; 8 oz., $1.20; 2 lbs., $3.00; 10 lbs., $12.00.

EVERGREEN. Non-poisonous insecticide. Oz. bottle, 35c; 6-oz. bottle, $1.00; 16-oz. bottle, $2.00; 32-oz. bottle, $3.50; gallon bottle, $8.63; 5-gal. drum, $38.75.

FLOWERS OF SULPHUR. Lb., 15c; 10 lbs., $1.00; 50 lbs., $3.50; 100 lbs., $6.00.

FISH-OIL SOAP. Standard wash for trees and plants where insects and eggs affect the bark. Lb., 30c; 5 lbs., $1.25; 10 lbs., $2.25.

FUNGINE. New remedy for mildew, rust and other fungus, diseases for greenhouse and outdoor use. Pint, 75c; 1 qt., $1.10; gal., $3.00.

GRAPE DUST. Excellent for the prevention and destruction of mildew on plants. 5 lbs., 95c; 10 lbs., $1.80.

HELLEBORE POWDERED, White. Less poisonous than Paris Green and safer to use when fruit and vegetables are nearly ripe. Per ¼ lb., 20c; ½ lb., 35c; lb., 60c; 5 lbs., $2.25; 10 lbs., $4.00.

LEMON OIL. Destroys mealy bug, scale, red spider. ½ pt., 30c; pt., 50c; qt. 85c; ½ gal., $1.75; gal., $2.50; 5 gals., $10.00.

NICO-FUME POWDER FUMIGATOR. Lights quickly, burns evenly and will not go out. No waste; every particle is consumed. It retains its strength indefinitely. 1-lb. tin, $1.00; 5-lb. tin, $3.50; 10-lb. tin, $6.15.

NICO-FUME LIQUID. For fumigating or spraying; contains 40 per cent nicotine. 1 lb., $2.00; 4 lbs., $5.85; 8 lbs., $10.85.

"NICO-FUME." A Tobacco Paper for Fumigating. Strips of paper strongly saturated with Nicotine. Use 4 to 6 sheets for ordinary house 100 ft. long by 20 ft. wide. Price, 24 sheets, $1.25; 144 sheets, $4.75; 288 sheets, $8.25.

NICOTROL. An activated nicotine spraying preparation made by combining nicotine and penetrol. Qt., $1.25; gal., $2.75; 5 gals., $10.50.

NICOTINE. Fumigating powder. 10 lb., cans, each, $6.15.

PENETROL. An activator for nicotine spraying solutions. Qt.. 75c; gal., $1.75; 5 gals., $6.75.

KALITE. A better and safer protection for vegetables, fruits and flowers. A non-poisonous insecticide in powder form for controlling chewing and eating insects; not to be mixed with water; can be applied with any standard duster. Price, 1 lb., 35c; 3¼ lbs., $1.00; 25 lbs., $5.00; 100 lbs., $15.00.

KALOIL. Self spreading, free flowing pyrethrum spray; mixes freely with hard or soft water at all normal temperatures, without using soap, heating or extra handling; a contact insecticide which kills most insects such as aphids, plant lice, leaf hoppers, red mites, etc. Price, 1½ oz., can 35c; 6 oz., can, $1.00; 32 oz., can $3.85; gal., $11.75.

SEMESAN. The universal seed disinfectant and plant stimulant. Important for control of damping off of seedlings Gladiolas and disinfection of seed bed soil. Prices, 2 oz., 50c; 1 lb., $2.75; 5 lbs., $13.00; 25 lbs., $56.25; 100 lbs., $220.00. Write for leaflets, stating for what purpose desired.
Write for leaflets on Semesan, Semesan Jr. and Semesan Bel.

ACME ALL ROUND SPRAY. The latest improvement in the insecticide field, one product which will combat blight and fungus diseases, control sucking insects and destroy chewing insects in one application; safe to use on almost all fruits, vegetables, flowers and shrubs. Per ¼ lb., 45c; 1 lb., 95c.

SULPHATE OF IRON. A remedy for weeds on lawns, kills dandelions without injuring grass. Apply liquid with a fine spray. Particulars on application. 5 lbs., 45c; 10 lbs., 80c; 25 lbs., $1.45; 50 lbs., $2.25; 100 lbs., $3.50.

ARSENATE OF LEAD. (Dry). For dusting and spraying. Solves the problem of controlling practically all leaf-eating insects in an efficient manner. 1 lb., 50c; 4 lbs., $1.50; case of 24 lbs., $5.00; 100 lbs., $14.50.

PYROX. Kills all leaf-eating insets, destroys fungus growth, blight and rot. Mixes easily in cold water, sprays without clogging and sticks to foliage. Price, lb., 50c; 5 lbs., $1.75; 10 lbs., $3.00; 25 lbs., $6.25; 50 lbs., $10.75; 100 lbs., $15.50.

NICOTINE PYROX. For chewing and sucking insects. 10 oz., jar 50c; 40 oz., $1.75.

NIKOTEEN. 30% grade. For Spraying and Fumigating. Oz. bottle, 35c; ½ pt., $1.10; pt., $2.00; 3 pts., $5.75; original case 10 pts., $17.50. 40% grade. 4 lbs., $5.85; 8 lbs., $10.85.

**Pomo-Green** With nicotine. The new green Fungicide for roses and other flowers and ornamentals; will control black spot, mildew, and chewing insects. Lb., 50c; 5 lbs., $2.00; 25 lbs., $7.50.

PARIS GREEN. A poisonous insecticide in powder form, for insects which chew. ¼ lb., 20c; ½ lb., 35c; per lb., 55c; 5 lbs., $2.50; 14 lbs., $6.00.

PASTOXINE. Non-poisonous, a sure death to rats and mice, a small bait will kill a rat in from two to six hours, is absolutely harmless to human beings, poultry and domestic animals. Price, oz., 50c; 2½ oz., $1.00.

RED ARROW. Non-poisonous, kills by contact will not burn or stain tenderest foliage, oz. will make 4 to 8 gals., spraying solution. Oz., 35c; ½ pint, $1.75; qt., $6.00; gal., $18.00.

SNAROL. An insecticide bait to combat snails, cutworms, sow bugs and grasshoppers. Price, 1 lb., 45c; 3 lbs., 95c; 15 lbs., $3.50; 50 lbs., $9.50.

SULPHO TOBACCO SOAP. One of the best remedies for greenfly on roses and house plants. Per ½-lb. box, 25c; by mail, 30c. 3 oz. package, each, 15c; by mail, 20c.

SCALECIDE. An oil preparation for San Jose scale. Use 1 gal. to 15 gals. water. Qt., 75c; gal., $1.60; 5 gals., $6.00; 10 gals., $10.00. Write for price in barrel lots.

SLUG SHOT, Hammond's. Guaranteed to destroy potato bugs, and those on tomato and egg plants, currant worms, cabbage lice and worms. Price, 1 lb., 25c; 5 lb., tin 75c; 25 lb., bag, $3.50. Per keg, 125 lbs. $16.50; barrel, 250 lbs., in bulk, $33.00.
Slug Shot Duster. ½ gal. size, 60c.

SHEPS PLANT SPRAY. An effective non-poisonous solution that kills and controls both sucking and chewing insects. 2 oz. bottle, 35c; ½ pt., 75c; pt., $1.25; qt., $2.00; gal., $6.35; 5 gals., $30.00.

THRIP JUICE No. 2. Destructive for mealy bug, scale, thrip, codlin moth, canker worm, beetles, caterpillars, etc. Per pt., 85c; qt., $1.25; gal., $3.75.

TOBACCO DUST. (Regular Grade.) 5 lbs., 35c; 10 lbs., 65c; 100 lbs., $4.00.

TOBACCO STEMS. 100 lbs., $2.50; 500 lbs., $9.50; 1000 lbs., $18.00.

TREE TANGLEFOOT. Perfect safeguard for trees. Lb., 60c; 5 lbs., $2.75; 10 lbs., $5.25; 25 lbs., $11.00.

VERMINE. For eel, cut worms and wire worms, working in the soil. Can be applied to all vegetation. ½ pint, 50c; pint, 75c; quart, $1.10; gal., $3.00.

VOLCK. The Scientific Insecticide for nursery, greenhouse and garden. Controls scale insects, mealy bug, white flies, red spiders, rust mites, aphis and thrips. ½ pint, 50c; pint, 75c; qt., $1.00; gal., $3.00; 5 gal., $12.00.

WILSON'S O. K. PLANT SPRAY. A powerful yet harmless and efficient insecticide for aphis, red spider, mildew scale, etc. Price, ½ pint, 40c; quart, $1.00; gallon, $3.00; 5 gallons for $12.00.

CYANOGAS CALCIUM CYANIDE "G." Greenhouse fumigant. Aphis, white fly, thrips, soft scale, and mealy bug and control for crop-destroying rodents. 5 lbs., $3.00; 25 lbs., $10.00; 100 lbs., $30.00. Write for leaflet.

WONDER-GROWTH Insecticide, Fumigant and Fertilizer. A finely ground ALL Tobacco Insecticide, Fumigant and Fertilizer. Very effective in all three of its uses. A very excellent plant food for flowers, lawns, gardens, and shrubbery. 25 lbs. $1.75; 100 lbs., $4.75.

# Sprayers, Dusters for Insecticides

## The Hudson Barrel Cart

Sprayer is a 50 gallon portable Sprayer desirable for use where the trees or bushes are too close or too low to permit driving a wagon through between them. It is easily and quickly wheeled from place to place. After the spraying is completed, the cart can be detached and used for hauling water, etc. The Pump and Barrel can also be used as a separate unit when desired.

**Pump.** Our regular 4AS Barrel Pump fastened in top of barrel with malleable clamps. Easily removed for cleaning, etc. Fitted with non-clogging tubular brass strainer and dasher agitator which cleans it automatically at each stroke of pump.

**Tank.** 50 gallon welded steel barrel, which will not warp, crack or check. Wood barrel can be furnished on special orders. Fitted with filling hole cover to prevent spilling.

**Discharge Equipment.** 6 feet of ⅜-inch 5-ply spray hose and a 4-foot extension rod—total 10 feet, and Ideal angle spray nozzle.

**Cart.** Steel frame and handles. Wheels are 36 inches diameter with 2-inch tire. Will pick up any barrel without the use of special fittings.

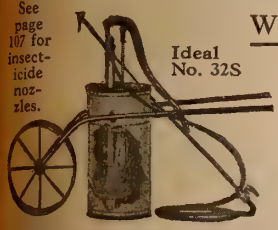
**Shipping Weight.** Cart only, 90 pounds. Pump and Barrel, 128 pounds. $36.00.

## The Auto Spray

Eight to ten strokes of plunger in air chamber compresses enough air to discharge entire contents, making continuous spray for nine minutes. "Auto Spray" is improved by addition of the "Auto Pop" shown in illustration.

Price, galvanized iron reservoir, **with Auto Pop,** $6.50; solid brass reservoir, **with Auto Pop,** $9.00. Extension rods, 2-foot lengths, 50c. Two-row attachments, $1.50.

See page 107 for insecticide nozzles.



Ideal No. 32S

## Wheelbarrow Sprayer

Goes anywhere like a wheelbarrow, through narrow openings. For spray solutions, disinfectants or whitewash. With extra long handle and large air chamber, develops 150 to 200 lbs. pressure with minimum of effort. Made of best materials, all working parts of brass or bronze. Cart is strong, all steel and cross braced. Tank holds 15 gals. Fully equipped with hose, nozzle, fittings, steel extension, etc. Price, $22.50.

Shipping weight, 80 lbs.

**Wheelbarrow,** same capacity as the above, with smaller pump, each, $14.00.

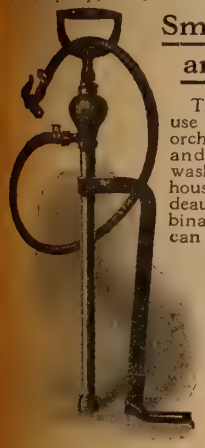
## Hudson Perfection Sprayer

The tank is made of heavier metal than is generally used for similar sprayers, while the valve and pump are of special construction to give better service. Hose is attached at such an angle that it will not kink. Unexcelled for Whitewash, Water plants, insecticides, etc. Galvanized steel, $6.50; all Brass, $9.00.

## Bottle Sprayer

Especially adapted for spraying insecticides, flowers, houseplants and disinfectants. Each, $1.25.

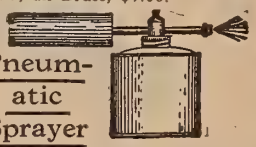
## Smith's Whitewash and Spray Pump



This is most excellent for use in gardens, greenhouses, orchards, washing windows, and automobiles or whitewashing and spraying poultry houses. Is fitted with Bordeaux nozzle, the best combination spraying device, and can be changed from a solid stream to a spray. It is double action and has large air chamber which throws an absolutely continuous stream, solid or in fine spray. It is one of the best pumps made for the money.

Price, complete, without bucket, $5.50.

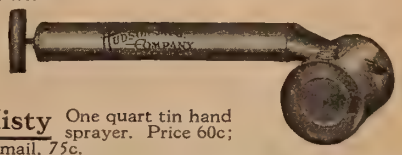
## Pneumatic Sprayer



Compressed air **hand sprayer.** Operator sprays with one-half labor ordinary sprayer requires. Throws a fine mist and can be used to apply insecticides, etc. One quart size. Galvanized Tank $1.25; Brass Tank, each, $2.00.

## Myers Little Giant Spray Pump

with agitator, complete with hose and combination fine or coarse spray and solid-stream nozzle, with malleable foot rest. Price, complete, $5.00, without bucket.



**Misty** One quart tin hand sprayer. Price 60c; by mail, 75c.

## Bamboo Extension Rod

Lined with aluminum. Eight feet long, with stop cock. Each, $4.75.

**Lowell** Mason Jar sprayer, holds 1 qt. Each, 75c.

## Hand Barrel Pump

No. 4 A.S.

Equipped with 12½ ft. high pressure spray hose, nozzle and fittings. Without barrel. Price, $11.50; Barrel $9.50 **extra.**

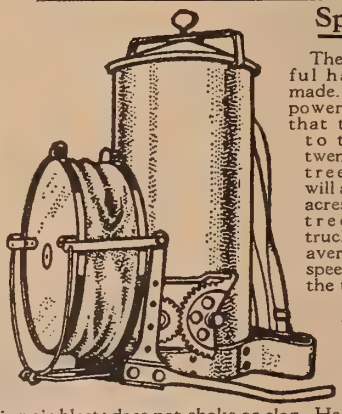
Write for prices on power sprayers.

## Lightning

Compressed air sprayer is designed to give the purchaser the greatest possible value at an attractive price. Can be used with whitewash and cold water paints, insecticides, disinfectants, shingle stains, etc. Galvanized tank, complete, $4.50.

# DUSTERS AND BLOWERS

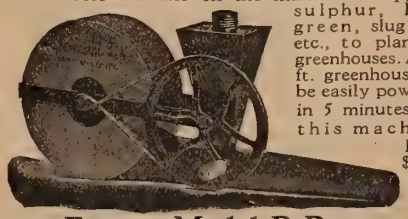
## The American Beauty Dust Sprayer



The most powerful hand duster made. Has a large, powerful bellows, that throws dust to the top of twenty-five foot trees. A man will average eight acres per day on trees. Dusts truck crops at an average walking speed, and dusts the under side of leaves. Has a spiralagitator that crushes and grinds the dust and feeds directly into the moving air blast; does not choke or clog. Has an efficient regulator for discharge control. It is considered the standard of efficiency by all authorities. Price, $18.00. Write for leaflet.

## Peerless Blower

The best machine on the market for applying sulphur, Paris green, slug shot, etc., to plants in greenhouses. A 200-ft. greenhouse can be easily powdered in 5 minutes with this machine. Each, $9.00.



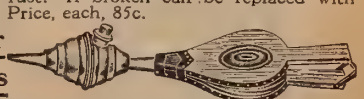
## Feeney Model B Duster

Splendid Hand Duster, Each, $1.00.

## The Lowell Sprayer

For applying insecticides in form of mist. Reservoir is glass, so operator sees ingredients mixing. Will not corrode or rust. If broken can be replaced with Mason jar. Price, each, 85c.

## Powder Bellows

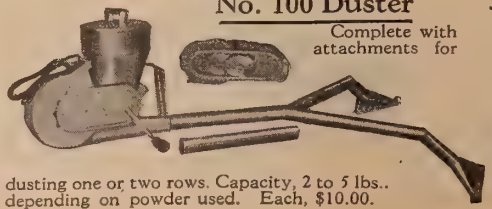


For dusting with sulphur or like material.

No. 11. Length, 17 inches over all. Each, $2.50

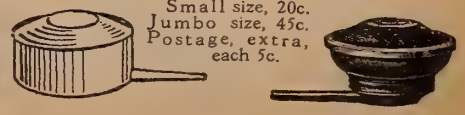
No. 16. Length, 21 inches over all. Each, 3.50

## No. 100 Duster



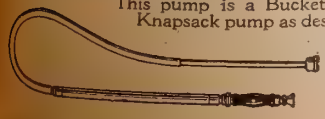
Complete with attachments for dusting one or two rows. Capacity, 2 to 5 lbs., depending on powder used. Each, $10.00.

## Powder Gun, Cyclone



Small size, 20c. Jumbo size, 45c. Postage, extra, each 5c.

## Standard Spray Pump



This pump is a Bucket, Barrel or Knapsack pump as desired. Price, $5.00; with knapsack and curved extension, $9.25.

# Novelty Garden Tools, Supplies

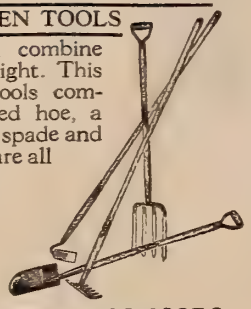
## MASTERS' PERFECT FERTILIZER DISTRIBUTOR

Spreads any kind of commercial fertilizer on lawn or garden evenly without danger of burning.

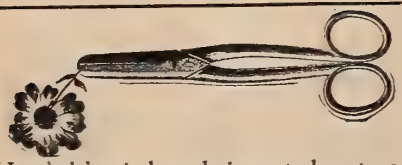
A simple and accurate regulating device with shut-off on the handle. Will also sow grasss eed for reseeding or new lawn
16-inch size.... $ 8.75
24-inch size.... 11.00
36-inch size.... 16 50.

## LADIES' AND YOUTHS' SET OF GARDEN TOOLS

Well constructed; combine strength and light weight. This set of light-weight tools comprises a long handled hoe, a garden rake, garden spade and spading fork. They are all serviceable, well-constructed tools (not toys), handy for use in camp and home gardens. Price, per set, $4.35.



## FLOWER GATHERING SCISSORS



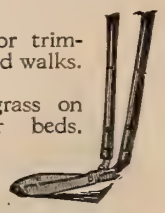
Henckels' twin brand, imported, cuts and holds the flowers. Nickel-plated, finest quality Price, $3.00; if by mail, add 15c for postage.

## SHEARS

**Border**—Long handle for trimming the edges of borders and walks. 9-inch, $4.75.

**Grass**—For trimming grass on edges and around flower beds. Each, 50c.

**Grass**—Best quality steel, 6-inch blade, $1.35.



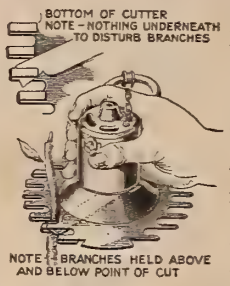
**Vaughan Doo-Klip Grass Shear.** Each, $1.50. By mail, $1.60.

Doo-Klip

## No. 25 LADIES' PRUNING SHEARS

Nickel-plated of best steel, 6 inches long. A tool every lady gardener should have; will cut flowers, branches, and dead limbs with greatest ease. Will last a lifetime. Each, $1.50; postpaid, $1.60.

## THE O. K. ELECTRIC HEDGE CUTTER




It can not be overloaded, branches are held while cut, it will cut any shape or kind, it will cut as fast as it can be moved. You can also trim grass edge and bushes. It will pass over cut tips without stubbing. You can bevel the edge, cut round tops and corners. You can cut to exactly where you made the last cutting, to hold your hedge growth back. The direct hold on the motor allows you to guide the hedge cutter accurately. Price, $15.00.

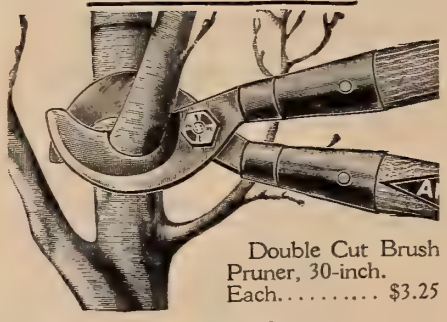
**LITTLE WONDER Hedge Trimmer.** Will trim your hedge five to ten times faster than hand shears. Attachments come with each machine to adapt it to flat, round or pivot tops as well as side cutting; 40-inch. Each, $27.50.

Side-cutting carriage for hedge trimmers, $4.50.

Illustration shows trimmer with side-cutting carriage.

**Write for prices on The Electric Little Wonder Hedge Trimmer**

## DOUBLE CUT PRUNER



Double Cut Brush Pruner, 30-inch. Each..... $3.25

## CURBING

Ryerson "Estate" for Road and Garden, made of high grade open hearth heavy steel strip, ¼ inch thick; 5 inches deep and comes in strips 16 feet long. Write us for price and leaflet.

## LENOX SPRINKLER

A splendid sprayer for in or outdoor plants, rose bushes, etc. Throws fine spray under or over foliage of any plant or shrub, removing dust and insects. Each, 90c; by mail, $1.00.

## GARDEN SET, TRUE TEMPER

This is a high grade set. Each tool is forged from one solid piece of bar steel. For complete set of trowel, hand weeder, hand spading fork and baby Warren hoe, $2.95.

# Hotkaps

## New Method of Plant Protection

Protects plants from frost and other elements, matures crops earlier, keeps insects out, keeps soil soft. They are made of a specially prepared waxed paper and are cone-like in shape, measuring about 11 inches in diameter at the base and coming to a point at the top. When placed over the plants and held firmly in place by the soil around it, Hotkaps become individual miniature hothouses.

**Hotkap Setter.** Will prove very helpful. This is a small steel cone, the exact shape of the Hotkap itself with a handle at the top. The cost of the Hotkap setter is nominal and it can be used a lifetime.

Prices: 1,000 lots, $11.00; 5,000 lots, $10.75 per M; 10,000 lots, $10.50 per M; 250 Trial Package including Garden Setter with Tamper, $4.00; 100 Home Package, including Garden Setter with Tamper, $2.50; Germaco Hotkap Steel Setter with Tamper, $2.50; postage extra. Wt.: 1,000 package HOTKAPS, 28 lbs.; 250 package, 8½ lbs.; 100 package, 4¼ lbs.; Steel Hotkap Setter, 3 lbs.

## POTTERY BIRD BATH

24 in. high, 17½ in. diameter, made of high-grade vitreous pottery. Absolutely weather and frost-proof. Very artistic. Beautiful brown color. Approximate weight 40 lbs. Price $5.50.

## POTTERY WREN HOUSE

Maintains even temperature. Easily cleaned. Removable wood bottom. Hole just the right size, is much liked by this great songster. A real decoration to your garden, approximate weight 8 lbs. Price, $1.25; three for $3.50.

## TROWEL

Vaughan's steel. One solid piece of steel and will outwear all others. Each, 95c; 3 for $2.75; postpaid, each, $1.00

# Mulch Paper for Your Garden

Both state and federal experiment stations have proved the value under American conditions of the paper mulch method which was originated by Charles F. Eckart on Hawaiian sugar plantation. For the home gardener the paper mulch is invaluable. Laid down between the rows, it (1) makes cultivation unnecessary; (2) increases moisture in soil and does away with irrigation; (3) increases yield enormously.

Gator-Hide mulch paper, impregnated with asphalt. Type A, 300 lineal yards, 18 in. wide, approximately 30 lbs., $3.00 per roll. 36 in. wide, approximately 60 lbs., $6.00 per roll. Type B, extra heavy for perennial crops, 150 lineal yards, 18 in. wide, approximately 30 lbs., $3.00 per roll; 36 in. wide, approximately 60 lbs., $6.00 per roll.

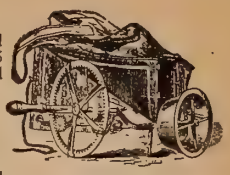
Small garden size roll, 45 lineal feet. Price 75c; by mail, 95c.

## Sowrite Seeds Sower Model B

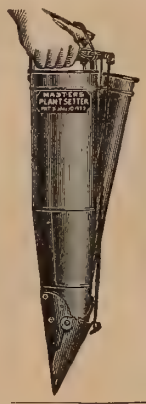
SOWS SEEDS AT A TOUCH

**SOWRITE Model 1923.** Made of copper, nickel plated, for all seeds up to size of sweet peas; scatters seed individually; prevents crowding and choking of seedlings; eliminates guess work because you can see each seed drop no matter how fine; saves time because you can sow seeds twice as fast. Price, **60c,** postpaid.

## CAHOON SEEDER



It will seed evenly five to six acres per hour. It will scatter the following distances: Wheat, Barley, Rye, 25 feet; Clover and Timothy, 18 to 20 feet. The bag and hopper hold about 22 quarts. Weight, 5½ lbs. Price, **$4.50.**



## MASTERS RAPID PLANT SETTERS

For transplanting all kinds of plants—Cabbage, Tomato, Cauliflower, Peppers, Asters, Chrysanthemums and similar plants. Each plant is set, watered and covered in one operation without stooping and without lame backs. This setter is a labor saver and does perfect work. Fully guaranteed. Price, **$6.00** each.

## SEED SOWER

**Cyclone.** (New Improved Model.) An accurate portable seeder, for all broadcast sowing or fertilizing. Fits comfortably over shoulder; provided with automatic adjustment for stopping flow of contents when required. A great time and labor saver. Each, **$2.25.**

## Midget Seeder With Handle

the most popular little seeder on the market. It is all metal construction, but it is extremely light and easy to lift about or to empty. It operates very simply. The shoe is adjustable for any depth, the coverer swings free and does its work nicely; will handle accurately almost any kind of garden seed from the smallest up to peas and beans. The hopper holds one pint, yet it will drill out clean a five-cent package of seed just as well as a hopper full. It is equipped with a 4½-foot handle. Full directions attached to every Seeder.

**Price, $4.25**

# Planet Jr. Garden Tools

**72-PAGE GARDEN MANUAL FREE. WRITE FOR YOUR COPY NOW**

**We carry the complete line of Planet Jr. Seeders, Cultivators and Hoes. Write us for price list.**

## No. 12 Planet Jr. Double and Single Wheel Hoe

A combination of Double and Single Wheel Hoe that has become the most popular in this and other countries. As a double wheel hoe the row can be straddled and worked both sides until the plants are 20 inches high. Then as a double or single wheel hoe, the crops can be cultivated both sides of the row and in the middle, thoroughly and quickly. Can also be used as a single wheel hoe wherever desired. The cultivating attachments permit one to do all the necessary plowing, opening and closing of furrows, hilling of plants and all the garden cultivation required. The side hoes break up the crust, kill the weeds, and pulverize the soil, which prevents evaporation of the required moisture. Rakes, Disc Hoes and other attachments can be added at any time. See Page 80 of the Planet Jr. catalog.

**Equipment: Pr. 6-inch Hoes, 4 Steel Cultivator Teeth, Pair Plows, Two Leaf Guards**

**No. 12 Price, $10.75**

**No. 11** same as No. 12 with extra Cultivator teeth, extra pair side hoes, and pair 3 tooth rakes and a pair of 5 tooth rakes. **Price, $13.75.**

## BOLEN'S TRACTORS

Are the most successful of all makes. We can supply all models. Write us for prices and booklets. We will be glad to help you select a model suitable to take care of your requirements if you will advise us of the condition of your soil and the kind of crops you grow.

## No. 17 Planet Jr. Single Wheel Hoe

The No. 17 is a very complete tool for any kind of garden work—plowing, cultivating, harrowing, hoeing, opening and closing furrows, hilling up plants—always useful throughout the season.

**You can do more and better work in one hour with a Planet Jr. wheel hoe than in four or five hours with the old-fashioned hand hoe.**

**No. 17 Planet Jr. Single Wheel Hoe**

**Price, $7.75**

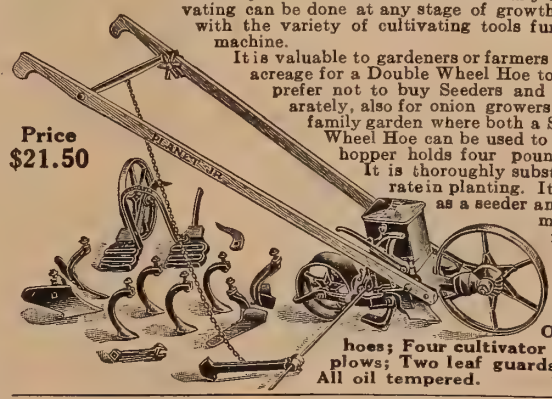
Packed weight, 22 lbs. Equipment: One pair of 6-inch hoes, Three steel cultivator teeth. One large garden plow. All oil tempered. Steel frame; 15-inch steel wheel.

## No. 25 Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow

The **No. 25 Combined Seeder, Double and Single Wheel Hoe** is recognized by hundreds of users and recommended by them as being the "Complete Gardener." It sows practically all vegetable seeds, either in hill or drill, accurately and without waste. Practically any kind of cultivating can be done at any stage of growth of various crops with the variety of cultivating tools furnished with this machine.

It is valuable to gardeners or farmers who have enough acreage for a Double Wheel Hoe to be used, and yet prefer not to buy Seeders and Wheel Hoes separately, also for onion growers and for the large family garden where both a Single and Double Wheel Hoe can be used to advantage. The hopper holds four pounds of onion seed. It is thoroughly substantial and accurate in planting. Its simplicity, both as a seeder and as a wheel hoe, makes the combination thoroughly satisfactory.

**Price $21.50**

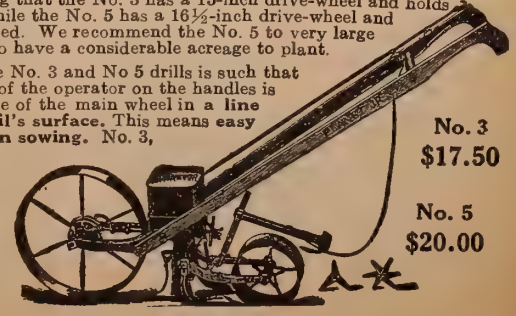


**Holds 2½ qts. Weight, complete, 61 lbs. Equipment: One pair of 6-inch hoes; Four cultivator teeth; One pair plows; Two leaf guards; One marker. All oil tempered.**

## No. 3 and No. 5 Planet Jr. Hill and Drill Seeders

These seeders are undoubtedly the most favored by market gardeners and other large commercial growers. They are identical in operation and construction, the only difference being that the No. 3 has a 15-inch drive-wheel and holds 3 quarts of seed, while the No. 5 has a 16½-inch drive-wheel and holds 5 quarts of seed. We recommend the No. 5 to very large market growers who have a considerable acreage to plant.

The design of the No. 3 and No 5 drills is such that the push or thrust of the operator on the handles is delivered to the axle of the main wheel in a **line parallel to the soil's surface.** This means **easy work,** and also **even sowing.** No. 3, 15-in. steel driving wheel. Holds 3 qts. Weight, packed, 49 lbs. Net, 33 lbs. No. 5, 16½-in. steel driving wheel. Holds 5 quarts. Weight, packed, 53 lbs. Net, 34 lbs.

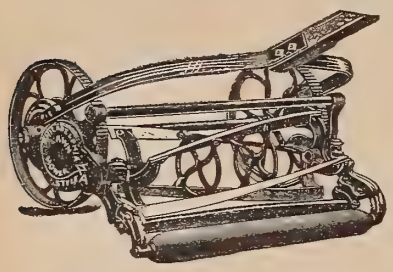


**No. 3 $17.50**

**No. 5 $20.00**

LAWN MOWERS
LAWN ROLLERS
LAWN TRIMMERS

# We Supply Everything



## Philadelphia Lawn Mowers

**FOR HALF A CENTURY THE STANDARD OF QUALITY**

THE genuine Philadelphia Lawn Mowers are the recognized standard for high-class machines. They are universally used in cemeteries and parks, where they are run constantly, day after day. The ordinary mowers cannot stand such usage. The knives are made of vanadium crucible steel, and do not require constant sharpening. The bearings are easier running than ball-bearings, and do not become clogged with dirt. A lawn mower of this quality for home use will be the best labor-saving device one could invest in—always sharp, easy running and going for years without the need of repair. We list the three highest grade machines made by the Philadelphia company. Write for catalog.

**Style A.** High wheel, all steel, very easy to run and light in weight. Ten-inch driving wheels. Long, large bearings, four blades, double ratchet. More of these mowers used by parks and estates than all other makes combined. Three gears on one side.

| 15 in. | 17 in. | 19 in. | 21 in. |
|---|---|---|---|
| **$21.00** | **$23.00** | **$26.50** | **$29.00** |

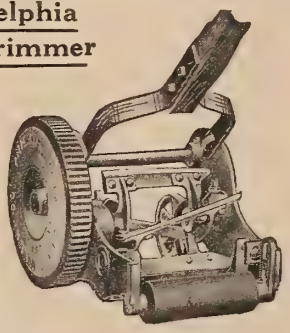
**Style K.** Cylinder with 5 blades. Driving wheel 10 inches. Big bearings, bored with rifle-barrel accuracy. Vanadium crucible steel blades. Very durable. Single pinion gears on both sides.

| 14 in. | 16 in. | 18 in. | 20 in. |
|---|---|---|---|
| **$16.00** | **$18.00** | **$20.00** | **$22.00** |

**Perfection Grass Collectors.** Have a galvanized iron bottom and never-rip cloth connections. Always be careful to state size and style of Mower when ordering.

| No. | | Each |
|---|---|---|
| 301 | Adjustable to mowers 12 to 16 inches | **$1.45** |
| 306 | Adjustable to mowers 16 to 20 inches | **1.75** |

## Philadelphia Lawn Trimmer

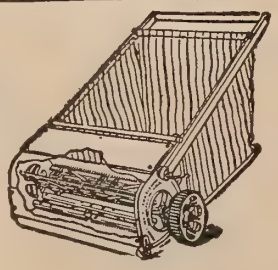


Does what Lawn Mower leaves undone. Having one side without wheel, it can run close to walls and trees, cutting grass clean and quick. Can also be used for trimming edges of walks, etc. **Price, each $10.50, complete.**

## Moto Mower

We can supply all types of Motor Mowers. Write for prices.

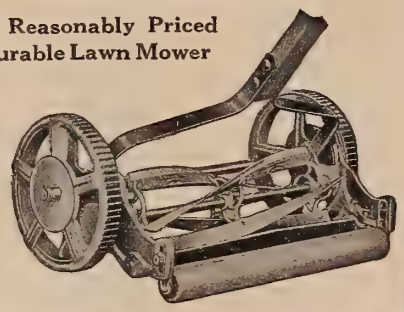
## Gem Lawn Sweeper



This machine will clean the lawn more thoroughly and quickly than three or four men with hand rakes, and greatly benefit the turf. Put together in the most durable and thorough manner. The rakes are flexible, the rake-heads being divided in the middle and hung on easy swinging hinges which are kept in position by retaining springs. **Price, 24-inch wide, each, $34.00.**

## Pilot Ball-Bearing

**A Reasonably Priced Durable Lawn Mower**

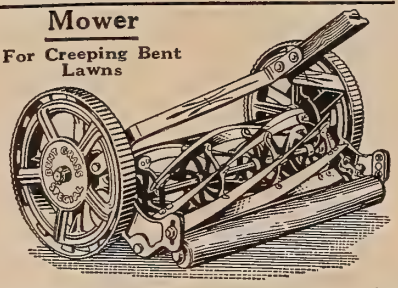


Drive Wheels—9 inches; open spoke design; revolve on steel bearings.
Reel—5½ inches in diameter; malleable spiders; steel shaft.
Gears—Double; one in each wheel; flat steel pawls.
Blades—Four crucible tool steel, hardened and tempered.
Ball-Bearings—Self-adjusting; dust-proof.
Bottom Knife—Tool steel; self-sharpening.
This mower is very graceful in outline and one of the easiest running machines on the market. Handsomely finished in aluminum bronze with blue and gold decorations.

| 14-inch | 16-inch | 18-inch |
|---|---|---|
| **$8.00** | **$8.50** | **$9.00** |

## Cricket Special Ball Bearing Mower

**For Creeping Bent Lawns**



Self-Adjusting Ball Bearings in revolving cylinder guaranteed for the life of the mower. Drive wheels 10½ inches in diameter, open type. Geard on both sides with reciprocating pawl ratchets. Cutter bar special design raised edge tool steel hardened and tempered in oil. Height of cut, ⅛-inch to 1¼-inch. Finish, Azure Blue, Gold Bronze and Carmine Enamel. Sizes: 16-inch, **$18.00**; 18-inch, **$20.00.**

## Hedge Shears

**BEST QUALITY**

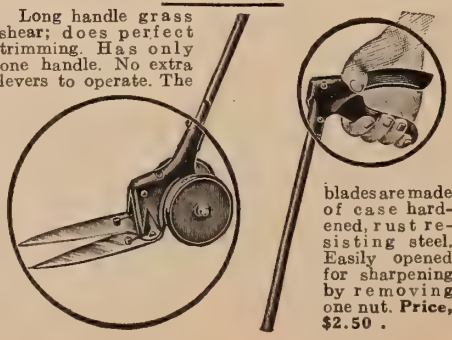
Imported. Made of the highest quality steel. These shears can be used both for trimming hedges and cutting grass under fences, bushes, etc. Steel blades. Tang extends through handles, riveted, making handles fast. 8-inch with Notch, **$3.00**; 9-inch with Notch, **$3.25**; 10-inch with Notch, **$3.50.**

**Ladies' Improved Hedge Shears.** 8-inch, each, **$1.75.**

**Domestic Hedge Shears.** Fine quality, 8-inch, **$1.85**; 9-inch, each, **$2.15.**

## Doo-Klip

Long handle grass shear; does perfect trimming. Has only one handle. No extra levers to operate. The



blades are made of case hardened, rust resisting steel. Easily opened for sharpening by removing one nut. **Price, $2.50.**

## Genuine Dunham Water-Weight Lawn Rollers

Water Ballast Lawn Rollers, steel handles, roller bearings, acetylene welded drums with anti-turf-tearing tires, non-rust shut water entrance. The most efficient and easiest running roller made. Weighs 50% more when filled with sand. Water is more convenient.

| No. | Diam. in. | Length in. | Sections | Wt., empty | Filled water | Price |
|---|---|---|---|---|---|---|
| WB5..... | 18 | 24 | 1 | 85 | 265 | **$16.00** |
| WB7..... | 24 | 24 | 1 | 110 | 420 | **18.50** |
| WB9..... | 24 | 32 | 1 | 130 | 565 | **21.00** |

Dunham rollers with plain bearings slightly lighter than the roller-bearing rollers.

| No. | Diam. in. | Length in. | Sections | Wt., empty | Filled water | Price |
|---|---|---|---|---|---|---|
| WB2..... | 14 | 24 | 1 | 68 | 175 | **$11.00** |
| WB4..... | 18 | 24 | 1 | 82 | 265 | **12.75** |

WB1 for miniature golf courses; diam., 14 in.; width, 15 in.; wt. empty, 45 lbs.; filled with water, 115 lbs. **Price, $10.00.**

Write us for price and leaflet on Dunham Water-Weight Horse and Tractor Rollers.

## THE RICHMOND SOD CUTTER

A great labor-saver.

A whole field can be cut without removing the sod, provided a narrow strip of about one inch in width, is taken out at the start. **Price, $40.00.**

## Perfection Lawn Edger

This is the greatest invention devised for edging lawns. It is simple and efficient.

Place the stub upon the sidewalk or curb, holding handle well up, with cutter blade down. Use short, firm stroke, forward and back. With each backward stroke the edge is allowed to clear and will prevent clogging. **Price, $2.25.**

**Berghman Lawn Mower Sharpener.** A high-grade durable lawn mower sharpener, easy to use and adjustable to all types of machines. No danger of making low spots in the blades. **Price, $1.00.**

**No. 2 Planet Jr. Grass Edger.** A handy tool to keep your lawn edges well trimmed. **Price, $1.75.**

# for the Lawn, Etc.

HOSE REELS, SPRINKLERS, RAKES, EDGERS, ETC.

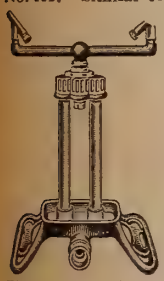
## GARDEN NON-KINKABLE HOSE

Best hose, finest quality of rubber. Will not kink and will last for years. We can supply any length fitted with couplings. There is no economy in buying cheap hose. **Price,** ¾-inch, per 25 feet, **$4.00;** 50 feet, **$7.50;** 100 feet, **$14.00.**

## STANDARD RAIN KING

Combines all the best features of both stationary and revolving sprinklers. Waters the largest lawns or the smallest corners, strips and odd-shaped places. Sprinkles in two directions at once or concentrates wherever water is wanted. Gives a gentle mist, a soaking downpour or light shower—all at instant command. Nothing to get out of order. Built for hard work and built to last. Bearings are hardened and machined to precision standards. A strong, sure-working sprinkler.

Weight, 3 lbs. Packed one to a carton. Each, **$2.75.**
**No. A1.** Similar to Majestic. Each, **$3.50.**



## RAIN KING, MAJESTIC.

Each, **$6.50;** 3 for **$18.00**
**GIANT.** Each, **$12.50**

## LINCOLN PARK OR BUTTERFLY

Cheapest and best Sprinkler made. Each, **35c.** Mounted on stand: 2-foot, **95c;** 4-foot, **$1.10;** 6-foot, **$1.25.**

## THE EVANSTON SPRINKLER

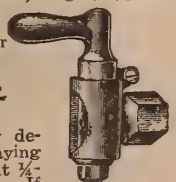
One of the best lawn sprinklers on the market; has no revolving parts to wear out and will not clog with sand or dirt. Gives an even distribution of water over a large area.
**Each, 70c; 3 for $2.00.**

## ROSS PORTABLE SPRINKLER

**Ross Portable Sprinkler System.** A good substitute for an underground sprinkling system for the small lawn at a much lower cost. When used between lengths of hose of about 15 ft., three tees will cover about 675 sq. ft of lawn and four tees will cover about 900 sq. ft. Each set consists of No. 30 adjustable tees and No. 58 square spray heads, with one No. 70 hose cap. Per set of three, **$3.50;** weight, 2 lbs.; per set of four, **$4.60,** weight, 2½ lbs.

## RIP

The master rainmaker sprinkler. Each, **$1.00.**



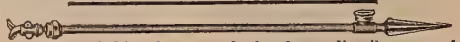
## INSECTICIDE NOZZLES

These are especially designed for use in spraying insecticides. Made to fit ¼-inch pipe connection. If wanted to fit ¾-inch hose, order reducer, **45c extra.**
**Bordeaux Nozzle.** Each, **85c;** by mail, **90c.**
**Vermorel Nozzle.** Each, **85c;** by mail, **90c.**

## FOUNTAIN SPRINKLER

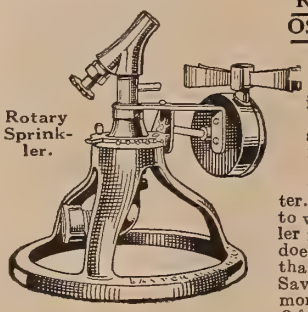
The mist-like spray that has made the name Fountain known all over the land. Each, **75c;** by mail, **85c.**

## AUSTRALIAN SPRINKLER



This sprinkler is one of the best distributors of water, because of its rapid revolution and form of its wings, spraying the water very finely and evenly.
Mounted on stand, 2-foot, **95c,** 4-foot, **$1.10;** 6-foot, **$1.25;** 8-foot, **$1.35.**

## ROTARY and OSCILLATING SPRINKLER



Rotary Sprinkler.

This sprinkler is adjustable at will from bell-shaped spray to full stream, half or full circle, 15 to 80 feet diameter. It is a pleasure to watch this sprinkler in operation. It does the work better than a man can do it. Saves time, labor and money. Each, **$10.00;** 3 for **$28.50.**

## CRESCENT SPRINKLER

**Rain King.** The nozzle that gives satisfaction. Easy to adjust, from the finest spray to long stream. Price, **$1.50.**

**Price, 65c. By mail, 75c.**

## PERFECT CLINCHING COUPLER

¾-inch, per pair, **30c;** doz., **$3.00.**

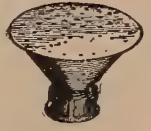
## Perfect Clinching Hose Mender

A self-fastening coupling that doesn't require extra bands, bolts or wires. It adjusts itself to any thickness of hose. ¾-inch, each, **15c;** doz. **$1.50.**
**HOSE CLAMPS. Bull Dog.** Each, **7c;** doz., **70c,** Prepaid.
**HOSE STRAPS. Caldwell.** Used in fastening coupler on hose. Each, **5c;** doz., **40c.** Pliers for same, **35c.**

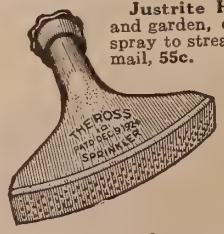
## THE COOPER HOSE MENDER

Best hose mender. Brass, with sharp barbs on either end, prevent hose slipping off. ½ or ¾-inch, each, **10c;** doz., **$1.00;** 1-inch, each, **12c;** doz., **$1.25;** postage, **5c** doz., extra.
**Iron Mender.** For ¾-inch hose, each, **7c;** doz., **70c.**
**HOSE WASHERS.** ¾-inch, per doz., **5c;** gross, **50c.**

## HOSE NOZZLES



**Gem.** Best all-around hose nozzle; can be used for lawn or garden, as it can be changed from fine spray to a stream by simply turning; for ¾-inch hose. Each. **75c;** by mail, **80c.**
**Boston Rose Spray.** Brass; for ¾-inch hose; useful for watering lawn and garden. Each, **$1.45;** by mail, **$1.55.**




**Justrite Hose Nozzle.** For lawn and garden, can be changed from fine spray to stream. ¾ inch, each **50c;** by mail, **55c.**

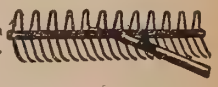
**Ross No. 10 Hand Sprinkler.** Preferred by nurseymen and home owners alike. Capacity 7 gallons per minute. Each, **95c.**

## BROOM RAKE.

Made of Spring wire. Each, **$1.25.**

## LAWN RAKES

**Automatic Self-Cleaning** Made of wood. A backward motion of the operator clears all the teeth at once. **Each, $1.50.**



**Lawn Queen.** Wire teeth reversible head; 24 teeth, **each, 95c;** 36 teeth, **$1.35.**

## HOSE REEL—ALL IRON

Very light, frictionless wheels being so high are very easily worked; no tipping when winding or unwinding hose.
**No. 10** for 100 ft. ¾-in. hose.....**$3.50**
**No. 20** for 150 ft....**$6.00**
**Donley's,** all steel **Each, $3.00.**

## TURF EDGER

**American.....** Each, **$1.25**

## SOD LIFTER

Polished steel blade, strap ferrule. D handle with ebonized wood grip. Length of handle, 2¾ feet. Length over all, 4 feet. Price, each, **$2.25.**

## ELECTRIC WORM ERADICATOR

Is more effective than any other material, bringing the worms up and killing them on the surface where they can be raked off. Is safe to use on the finest lawn. Pint, **$1.00;** gal., **$4.00;** 5 gals., **$16.25;** 10 gals., **$30.00.**

## "HERBICIDE"

THE WEED EXTERMINATOR

For ordinary grass and weeds each part of Herbicide may be diluted with forty to fifty parts of water. One gallon will cover app. 2,500 sq. ft. Herbicide is a poison. Live stock should be kept off the treated ground until the dead leaves wither away. Qt., **70c;** gal. **$2.00;** 5 gals., **$7.50;** 10 gals., **$12.50;** 30 gals., **$24.00;** 50 gals., **$38.00.**

## Reade's NON-POISONOUS Weed Killer

Qt. can, **70c;** gal., **$2.00;** 5 gals., **$8.00.**

## PURFECK

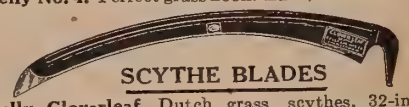
Chickweed Eliminator; kills only the chickweed and does not injure the grass, making it unnecessary to dig out the patches where chickweed appears or re-plant or resod such portions of the lawn or turf. Price, qt., **75c;** gal., **$2.00;** 5 gals., **$9.00.**

## ATLACIDE

Non-poisonous Weed Killer Duster, especially recommended for obtaining weed-free driveways, paths, tennis courts, and gutters. 1 lb. Duster kills 100 sq. ft. of weeds, price, **50c;** 3½ lb. Duster kills 350 sq. ft. of weeds, price, **$1.50.** 15 lb., drum kills 1,500 sq. ft., price, **$3.50.**
Write for prices on larger sizes.

## GRASS HOOKS OR SICKLES

**English.** Riveted back. Each....**85c**
**Domestic.** Best quality.....**75c**
**Kelly No. 4.** Perfect grass hook. Each, **75c.**



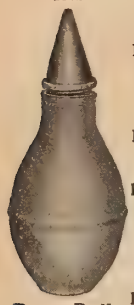
## SCYTHE BLADES

**Kelly Cloverleaf** Dutch grass scythes. 32-inch, each **$1.50.**

English, riveted back, 30-inch, **$2.50;** 36-inch **$2.75. Scythe Snath,** each, **$1.85. Scythe Stone.** Natural, **15c** each.

**Owing to the fluctuations of the market, prices are subject to change without notice.**

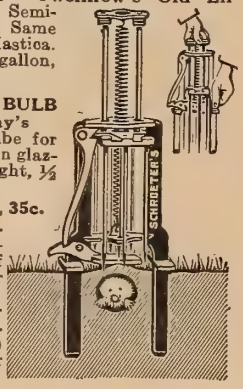
## GLAZING MATERIALS AND POTS



**MASTICA.** For glazing greenhouses, hotbeds, sash, etc., better than putty, does not crack, always remains soft. Per gallon, $2.95.

**MASTICA MACHINE.** For applying above. (Weight, 1½ lbs.) Each, $3.50.

**PUTTY.** Twemlow's Old English. Semi-liquid. Same as Mastica. Per gallon, $3.00.




Mole Trap

**PUTTY BULB** Scollay's
Putty Bulb
Useful tool with a tube for applying liquid putty in glazing greenhouses. (Weight, ½ lb.) Each, $1.75.

**PUTTY KNIFE.** Each, 35c.

**MOLE TRAP IMPROVED,** with patented setting attachment. One of the best mole and gopher traps. Each, $2.00.

**MOSS. Sphagnum.** Burlapped bales. Ea., $2.00.

**SHEET MOSS. (Green)** Freshly gathered; for Windows, Boxes, etc. Per sack, $2.75.

### POTS (Flower)

**F. O. B. Chicago. Write for New York Prices.**

**RED CLAY POTS.** We pack these carefully, but will not be responsible for breakage.

| | Doz. | 100 | 1000 | | Doz. | 100 | Each |
|---|---|---|---|---|---|---|---|
| 2 in.. | $0.35 | $1.60 | $11.00 | 6 in. | $1.35 | $ 8.50 | ..... |
| 2½ in. | .40 | 1.80 | 13.75 | 7 in. | 1.80 | 12.95 | ..... |
| 3 in... | .50 | 2.75 | 17.50 | 8 in. | 2.25 | 17.20 | ..... |
| 4 in... | .65 | 3.50 | ..... | 10 in. | | ..... | $0.60 |
| 5 in... | .85 | 6.00 | ..... | 12 in. | | ..... | .90 |

| PANS (Azalea) | Each | Doz. | | Each | Doz. |
|---|---|---|---|---|---|
| 6 in..... | $0.15 | $1.35 | 9 in..... | $0.35 | $3.50 |
| 7 in..... | .20 | 1.80 | 10 in..... | .60 | ..... |
| 8 in..... | .25 | 2.25 | 12 in..... | .90 | ..... |

| PANS (Fern) | Each | Doz. | | Each | Doz. |
|---|---|---|---|---|---|
| 6 in..... | $0.15 | $1.35 | 8 in..... | $0.25 | $2.25 |
| 7 in..... | .20 | 1.80 | 10 in..... | .60 | 5.50 |

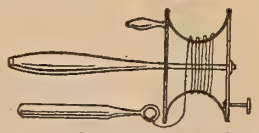
**SAUCERS Clay.**

| | Doz. | 100 | | Doz. | 100 |
|---|---|---|---|---|---|
| 5 in..... | $0.60 | $3.75 | 9 in..... | $2.00 | $13.50 |
| 6 in..... | .85 | 5.25 | 10 in..... | 2.85 | ..... |
| 7 in..... | 1.10 | 7.50 | 12 in..... | 4.20 | ..... |
| 8 in..... | 1.45 | 9.00 | | | |

**NEPONSET PAPER POTS.** Made of water-proof paper, light, clean and unbreakable.

| | Doz. | 100 | 1000 |
|---|---|---|---|
| 2¼ in.... | $0.14 | $0.70 | $ 4.75 |
| 2½ in.... | .17 | .85 | 5.40 |
| 3 in.... | .20 | 1.10 | 7.90 |
| 3½ in.... | .25 | 1.25 | 8.50 |
| 4 in.... | .28 | 1.45 | 11.50 |
| 5 in.... | .35 | 2.15 | 17.50 |
| 6 in.... | .40 | 2.75 | 22.50 |

**GARDEN LINE REEL.** (weight, 2 lbs). Each, $1.50.



**GARDEN LINE.** Each heavy braided. Per 96 feet, 95c; by mail, $1.05.

**GRAFTING WAX.**—Per ¼ lb. bar, 20c; ½ lb. bar 35c; 1 lb. bar, 60c.

**GLOVES—Gardener's.** A utility glove can be used for general housework as well as in the garden. All leather soft as kid and easy to wear. Per pair, 85c.

**DIBBER.** For transplanting vegetable plants; steel point (weight, 10 oz). Each, 95c.

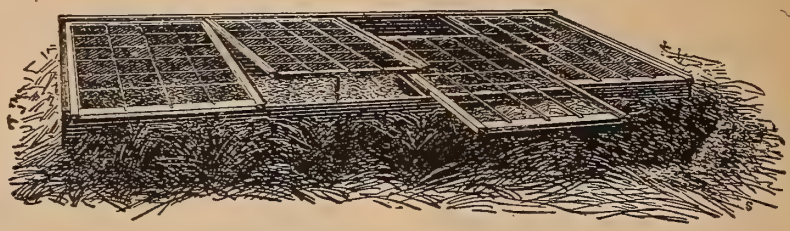
**SAUCERS—Red Rubber**

| | Each | Doz. | | Each | Doz |
|---|---|---|---|---|---|
| 4-inch.... | $0.15 | $1.60 | 7½-inch.. | $0.40 | $ 4.35 |
| 5-inch.... | .18 | 1.85 | 10-inch.... | .75 | 8.40 |
| 6-inch.... | .25 | 2.40 | 12-inch.... | 1.00 | 10.80 |

**HOE. Combination Draw and Rake.** 4½-inch cut and 4 teeth. Each, $1.25; 6½-inch cut and 6 teeth, $1.35.

**English Scuffle or Push.** 6-inch, $1.25; 8-in., $1.45. Without handle.

# Vaughan's Garden



## HOTBED SASH

**HOTBED SASH**—Made of the very finest material. **Unglazed** are not painted. **Glazed,** painted one coat. Single strength glass. Add 35c per sash for double strength.

**Size, 3x6 ft.,** holds 3 rows 10-inch glass.
**Unglazed,** each, $3.35; 3 for $9.60; doz., $37.20.
**Glazed,** single strength glass, each, $6.85; 3 for $20.90; doz., $73.20.

**Size, 38 inch x6 ft.,** holds 4 rows 8-inch glass.
**Unglazed,** each, $3.95; 3 for $11.50; doz., $44.20.
**Glazed,** each, $7.25; 3 for $21.50; doz., $79.20.

Prices include Crating. F. O. B. Chicago. Prices subject to change without notice.

## CEL-O-GLASS

Will take the place of glass in hotbed sash, garage and barn windows, storm doors, and many other purposes, at a great saving. Unbreakable and very light in weight. No glazing. Hammer and tacks are the only tools you need. Put up in rolls 3 feet wide up to 100 feet long. Price per square yard $1.75; 25 ft. roll 3 ft. wide, $10.50.

**RED DEVIL GLASS CUTTER.** Each, 25c.

**GLASS CUTTER DIAMOND.** Each, $5.50.

**GLAZING POINTS. — Vaughan's Perfection.** No rights or lefts; No. 2, small, for single thick glass; No. 2½, double thick, for greenhouses and skylights. Price per box of 1 lb., 70c; by mail, 80c.

**Siebert's Improved.**—Easy to drive, and will not wedge or crack glass, 2 sizes, ⅝ and ⅞-inch long. Price per lb., 70c; by mail, 80c.

## HOTBED MATS AND PLANT BED CLOTH

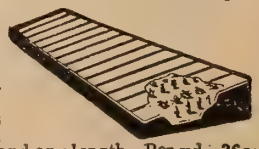
**Milo Waterproof Hotbed Mats.** A combination of heavyweight burlap felt and absorbent pulp, cemented together with a specially prepared water-proof compound absolutely impervious to rain, sleet and snow; proof against frost; repellant to rats and mice. Easy to handle, wears for years.

**Size,** 40x78 inches. Each, $2.50; doz., $22.50.
**Size,** 76x76 inches. Each, $4.50; doz., $46.00.

**IMPORTED REED HOTBED MATS.** Superior to straw mats; very durable. Size, 76x76 inches. Each, $2.85; three for $8.00; doz., $30.00.

**PLANT BED CLOTH. For Flower Beds,** cheap substitute for glass, answering many uses equally well, width 36 in., 20 to 60 yards, medium, per yd., 23c; heavy, 32c; 60 to 100 yds., medium, per yd., 21c; heavy, 30c; not less than 20 yds. of a kind sold.

**GLASS CLOTH.** A strong fabric treated by a patented process to make it transparent, weatherproof and waterproof. It costs much less than glass and for many purposes is superior. Anyone can put it up. It comes in rolls 36 inches wide and any length. Per yd., 36c; Limber Glass. Medium weight, per yd., 30c.



**VAUGHAN'S BULB PLANTER.** A new handy tool, made of wood. Each, 75c.

## KNIVES

**KNIVES.—Asparagus.** Straight Cut. Each, 45c; by mail, 50c.

**Asparagus.** Fishtail. Each, 50c; by mail, 55c.

**Budding.** Aluminum handle. Each, $1.75; by mail, $1.80.

**Budding and Prop.** Two blades; white handle; brass caps. Each $1.75; by mail, $1.85.

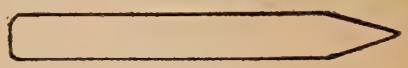
**Propagating.** "The Vaughan," best of all. Each, $1.25; by mail $1.30.

**Pruning.** Stag handle, imported. Each, $2.50; by mail, $2.55.

**Potato Knife.** "The Humphrey." Will cut to one or more eyes without injuring the vital tissues. Each, postpaid, 35c; 3 for $1.00.

**LABELS.—Zinc, Tree.** Wired 3¾ inches long, ¾-inch wide. Price per doz., 25c; 100, $1.75

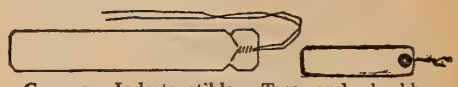
**Simplex. Shrubbery.** Doz., 50c; 100, $3.25.



**Wooden.** For pots, painted.

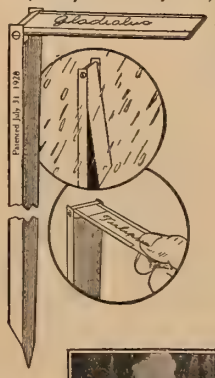
| | 100 | 1000 | | 100 | 1000 |
|---|---|---|---|---|---|
| 4-in..... | $0.45 | $2.10 | 6-in..... | $0.55 | $ 3.25 |
| 5-in..... | .50 | 2.75 | 12-in..... | 1.45 | 12.50 |

**Tree, Copper Wired.** 3½ in. 100, 55c; 1000, $3.10.

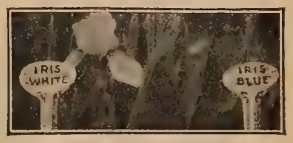


**Copper.** Indestructible. Tree and shrubbery. copper wired. Small, 25c doz.,; 100, $1.75; large, 35c doz.; 100 for $2.35.

**Heavy Wood.** Made of cypress. For use outside, will last for years. Splendid for Perennial Plants, ⅜-inch thick, 16x1¼ in. Doz., 65c; 100, for $4.25; 18x2 in., doz., 75c; 100 for $5.25.




**PEERLESS PLANT STAKES.** Non-rusting, made of copper, bearing galvanized metal, no acid painting or special ink necessary. The ordinary lead pencil is the very best thing to use for writing the names. No hunting for some special stake, merely take the first one you come to and change the card. This is very quickly and easily done. 12 in., doz. for $1.95; 25 for $3.75; 100 for $11.00. 18 in., doz. for $2.35; 25 for $4.35 100 for $13.50.




**Plant Markers Oval Top.** Made of heavy galvanized sheeting 9 inches long. Price, per doz., 75c; per 100, $4.50. Special black ink for marking labels, oz. bottle, 95c. **Markers for Rock Gardens.** 4 inch, galv., doz., 65c; 100, $4.75.

**FORK.** Lightweight Spading. True temper quality, handy for spading around shrubbery and perennials. Each, $1.45.

# Tools and Requisites

**SPADES**—Special D or long handle. Each....$1.75

**SPRINKLERS, Scollay's Rubber.** Best sprinkler for plants, ferns and flowers, holds 10 fluid oz. Large....$1.60 By mail..$1.65

**SIEVES.** For sifting soil. 18 inches in diameter, all sizes mesh from ⅛ to ½ inch. Each, $3.00.

**STAKES, WOODEN.** Painted green.

| Heavy Grade (for Dahlias) | Per doz. | Per 100 |
|---|---|---|
| 3 ft | $1.85 | $12.00 |
| 4 ft | 2.40 | 15.60 |
| 5 ft | 2.95 | 20.00 |

**Light Grade** (for smaller plants)

| | Per doz. | 100 | | Per doz. | 100 |
|---|---|---|---|---|---|
| 1½ ft | $0.45 | $2.60 | 3½ ft | $1.40 | $9.50 |
| 2 ft | .70 | 4.15 | 4 ft | 1.75 | 11.00 |
| 2½ ft | .95 | 4.65 | 5 ft | 2.10 | 14.00 |
| 3 ft | 1.20 | 7.50 | | Per 100 | 1000 |

**STAKES—Cane.** 6 to 8 feet long.....$2.25 $10.50

**STAKES—Cane.** 9 to 11 feet long.....2.75 19.00

Prices on cane Stakes f. o. b. Chicago.
Prices at New York 10 per cent. higher.

**STAKES—JAPANESE BAMBOO Green Painted.**

| | 100 | 1000 | | 100 | 1000 |
|---|---|---|---|---|---|
| 1½ ft | $0.95 | $ 5.50 | 3 ft | $1.65 | $ 9.75 |
| 2 ft | 1.10 | 6.50 | 3½ ft | 1.80 | 10.50 |
| 2½ ft | 1.35 | 8.00 | 4 ft | 2.10 | 12.75 |
| Japanese Bamboo, not painted, 6 ft. | | | | 2.35 | 17.50 |

**STAKES—HEAVY TONKIN Natural Color.**
Heavy weight bamboo, entire stake same weight; do not taper. Ideal for roses, dahlias, young trees, etc. Will last a lifetime.

| Length | Diameter | f.o.b. N. Y. Doz. | 100 | f.o.b. Chicago Doz. | 100 |
|---|---|---|---|---|---|
| 4 ft | ½ to ⅝ inch | $0.75 | $3.00 | $0.85 | $3.50 |
| 4 ft | ¾ inch | 1.10 | 4.75 | .95 | 5.25 |
| 5 ft | ⅝ to ¾ inch | 1.25 | 5.50 | 1.40 | 6.00 |
| 6 ft | ⅝ to ¾ inch | 1.35 | 6.50 | 1.50 | 7.00 |
| 8 ft | ⅝ to ¾ inch | 1.50 | 7.00 | 1.65 | 7.50 |

**STAKES—Galvanized Wire.**

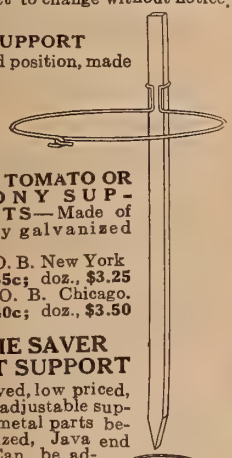
| No. 9 Wire | Doz. | 100 | No. 8 Wire | Doz. | 100 |
|---|---|---|---|---|---|
| 1½ ft | $0.25 | $1.00 | 3½ ft | $0.45 | $2.15 |
| 2 ft | .30 | 1.30 | 4 ft | .55 | 2.50 |
| 2½ ft | .35 | 1.55 | 5 ft | .65 | 3.00 |
| 3 ft | .40 | 1.85 | 6 ft | .75 | 3.60 |

Prices wire stakes subject to change without notice.

### SINGLE STAKE SUPPORT

Wire slides to any desired position, made in 2 heights.

No. 42—34 in. stake. Each, 30c; doz., $3.00
No. 43—46 in. stake. Each, 35c; doz., $3.50



**TOMATO OR PEONY SUPPORTS**—Made of heavy galvanized wire.
F. O. B. New York Ea., 35c; doz., $3.25
F. O. B. Chicago. Ea., 40c; doz., $3.50

### TIME SAVER PLANT SUPPORT

A long lived, low priced, completely adjustable support, all metal parts being galvanized, Java end is green. Can be adjusted as to height and size of loop almost instantly and is practically hidden by the foliage of the plant it supports.

| Per doz. | Per 100 |
|---|---|
| 30-inch..$0.95 | $7.25 |
| 36-inch.. 1.15 | 9.00 |
| 48-inch.. 2.20 | 16.50 |
| 60-inch.. 2.75 | 21.00 |

Plant Support

### MODEL EXTENSION CARNATION SUPPORTS

Bases or bottom circle made of No. 12 galvanized wire, top circle of No. 13 galvanized wire; diameter of top circle 6¾ inches, bottom circle 7½ inches; total height of support extended, 24 inches; shipping weight, two-ring supports, approximately 360 pounds per thousand; three-ring supports, approximately 410 pounds per thousand. Price, 2-ring supports, $7.50 per 100; $70.00 per 1000; 3-ring supports, $8.50 per 100; $80.00 per 1000. Write for price in large quantities.

### SEGMENT TOP PERGOLA, BOW INSERT PANELS

A most beautiful design—wider than others shown; painted a pure white. Furnished either with or without seats as shown.

No. 23S—As shown with two seats. Height 84 in. Width 94 in. Depth 36 in. Each, $22.00.

No. 23—Same as above without seats. Height 84 in. Width 94 in. Depth 36 in. Each $18.25.

### ORNAMENTAL LAWN FANS

Most popular, and inexpensive. Are most substantially built and painted with good white paint.

No. 106 — Height 69 in. Spread 45 in. Prices each, 95c.

No. 108—Height 94 in. Spread 60 in. Price each., $1.30.

(No. 106 may be shipped parcels post).

### DIAMOND FAN SPRAYS

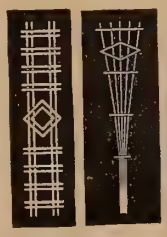
Use these on porch columns, on either side of the door, on your garage or fence post. Painted a pure white. Made in two sizes.

No. 316—Height 70 in. Spread 17 in. Each, $1.35
No. 318—Height 94 in. Spread 24 in. Each, 1.75

### SECTIONAL TRELLIS

May be used singly or a number laced together, to enclose the porch, or produce a sun shade. A very attractive design, substantially built and painted white.

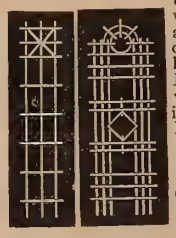
No. 4—Height 94 in. Width 17 in. Price each, $1.75.



4 316

### THE BUNGALOW TRELLIS

No. 98—You have many places about the home where a pair of these trellises will add beauty and value. Circles are of **bent hardwoods.** Painted solid white. Ht., 94 in. Width 34 in. Each, $3.85.



78 98

### THE CRISSCROSS

A dandy little trellis, for columns, entrance ways or on the garage. Painted white.

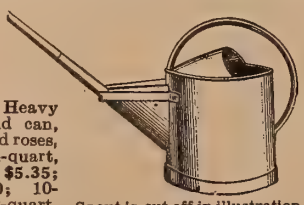
No. 78—Height 94 in. Width 17 in. Each, $1.60.

### FOLDING TRELLIS OR FENCE ITEMS

These three numbers are suitable for mounting on porches. They are also used extensively for fence—and may be extended to produce a fence any height from 10 in. to 60 in. Are securely fastened at every intersection and are painted white with a high grade linseed oil paint. Popular for parkings and flower beds.

No. 1—Ht., folded 34 in. Extends to 8 ft. Ea., $1.10
No. 2—Ht., folded 46 in. Extends to 12 ft. Ea., 1.50
No. 3—Ht., folded 70 in. Extends to 16 ft. Ea., 2.25

### Watering Pots



Spout is cut off in illustration to reduce space.

**American.** Heavy galvanized round can, two copper-faced roses, long spout; 4-quart, $4.85; 6-quart, $5.35; 8-quart, $6.00; 10-quart, $6.35; 12-quart, $6.75.

**French Style.** Oval, otherwise same make as above 6-quart, $5.95; 8-quart, $6.35; 10-quart, $6.75; 12-quart, $7.35.

### Galvanized Watering Pots

Box Spout Style, with detachable Rose, which can be quickly cleaned. 4 qt., 95c; 6 qt., $1.10; 8 qt., $1.20; 10 qt., $1.35; 12 qt., $1.50,

White Porcelain Standard Hot Bed Tin Case

**THERMOMETERS. Tin Case.** 8-in. 50c.
**Cabinet.** Wood case, 75c; 3 for $2.00.
**Hotbed.** Brass point, wooden frame, $2.75.
**Self-Registering.** With magnet to set it, 8-inch, each $6.50; registers highest and lowest temperature.
**Minimum.** For registering cold, $2.50.
**Tin Case.** Standard grade, tested. 8-inch, each, $1.75.
White porcelain enameled with red spirit tube easy to read. Each, 60c.
Thermometers shipped by parcels post at purchaser's risk only.

**SYRINGES—Brass.**

| | Each |
|---|---|
| **No. 0.** Length 12½ in.; 15-16 in. in diam. | $2.95 |
| **No. D.** 15½ in. long, 1½ in. in diam. | 4.50 |
| **No. 5.** Best for general Greenhouse use | $7.50 |
| **No. 11.** 18 in. long, 1 stream, 2 sprays | $6.50 |

### JAPANESE PLANT TUBS

These are exceedingly ornamental tubs, made of finest seasoned oak, and securely bound with bamboo hoops. Height, 11 ins.; inside diameter at brim, 12½ in. Ideal for palms, shrubs or plants used in hall and room decorations. Each, 75c; 10 for $7.00.

JAPANESE TUBS

**TUBS—(Flower) Richmond.**
These are made of best seasoned White Virginia Cedar, securely bound with welded wire hoops. Painted green with durable oil paint. Prices F. O. B. Chicago or New York. If handles are required add 35c per tub. First figure following number of tub gives diameter in inches at top of tub; second figure depth in inches.

| No. | Each | Four | No. | Each | Four |
|---|---|---|---|---|---|
| 1.. 6x 6 | $0.85 | $3.20 | 9..14x13 | $2.25 | $ 8.60 |
| 3.. 8x 8 | 1.05 | 4.00 | 11..16x15 | 2.85 | 11.00 |
| 5..10x 9 | 1.20 | 4.60 | 13..18x17 | 3.60 | 14.00 |
| 7..12x11 | 1.70 | 6.40 | 14..19x18 | 4.45 | 16.40 |

**VASE. — Cemetery.** — Earthen, green, 10-inch sharp point, each, 50c, three for $1.35, shipped by parcels post at purchaser's risk only.

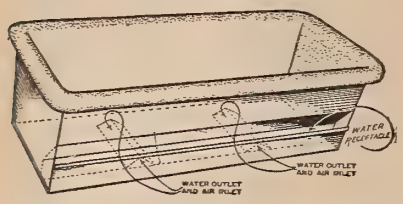
**Galvanized.** For Cut-Flowers. Unbreakable.
10 inches deep, 4¾ in. diam., each, 65c.
12 inches deep, 6½ in. diam., each, 90c.
15 inches deep, 6½ in. diam., each, $1.10.
18 in. deep 7½ in. diam. each, $1.45.

**Tin.** Cemetery. Green painted. Each, 20c; by mail, 30c; Doz., $2.25, postpaid.

Galvanized Vase Tin Painted Green Cemetery Vase

# Miscellaneous Horticultural Supplies

## "SUCCESS" SELF-WATERING FLOWER BOXES




The "Success" Window Boxes are substantially constructed of galvanized sheet steel, lock seamed and soldered watertight. A water pocket extends the full length of boxes, from which tubes lead into the box itself. This pocket with the tubes serve the following purposes, i. e.: Provides for watering the roots from below, allowing them to take up moisture as required; provides air circulation and ventilation, keeping the soil sweet and healthy; provides a perfect drainage should the plants be excessively watered by heavy rains or other causes. In fact, it serves as an accurate gauge as to the condition of the soil at all times. The boxes are finished in an attractive shade of green enamel and will prove an addition to any home, hotel or office building. Since they are watertight, they are especially adapted for inside use, serving to beautify the exterior during the summer and adding a touch of brightness during the winter.

Outside dimensions of Window Boxes:

| Length | Width | Depth | Price |
|---|---|---|---|
| 24-in | 8½-in | 6¼-in | $1.95 |
| 30-in | 8½-in | 6¼-in | 2.40 |
| 36-in | 8½-in | 6¼-in | 3.25 |
| 42-in | 8½-in | 6¼-in | 4.00 |

## "SUCCESS" PORCH BOXES (Model D)

Made on the same principle, but they are wider and deeper than window boxes and of heavier material. They insure thrifty growth of flowers and vines during hottest summer months. Never drip, like old wooden boxes, finished in an attractive shade of green.

| 8-in. deep, 11-in. wide. | | | 8-in. deep, 12-in. wide. | | |
|---|---|---|---|---|---|
| No. | Length | Price | No. | Length | Price |
| 23 | 42-in | $5.75 | 25 | 60-in | $7.75 |
| 24 | 48-in | 6.50 | | | |

We supply **all plants** for Window and Porch Boxes, Tubs, Urns, etc.

Specially prepared potting mold that will give best results. Peck, **40c**; bushel, **$1.25**; barrel, **$3.00.**

Let us advise you in your selection of plants.

We can please you and save you money.

## "SAVO" SELF-WATERING FLOWER BOXES

Savo Self-Watering Flower Boxes—one of the best of this type of flower boxes. Made of the best grade of galvanized steel with neat round corners and a full roll rim—beautifully finished in aluminum, green, pink, ivory, etc.

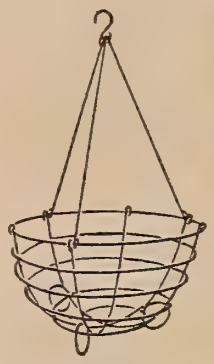
| | Height | Width | Length | Price |
|---|---|---|---|---|
| Model A, | 8 inches, | 8 inches, | 23 inches, | $3.00 |
| Model B, | 8 inches, | 9½ inches, | 29 inches, | 4.00 |
| Model C, | 8 inches, | 9½ inches, | 35 inches, | 4.50 |
| Model D, | 8 inches, | 9½ inches, | 41 inches, | 5.00 |
| Model E, | 8 inches, | 12 inches, | 12 inches, | 3.00 |
| Model F, | 12 inches, | 12 inches, | 12 inches, | 3.50 |

**WHEELBARROW—Globe Garden.** The best in design, material and workmanship for the class of trade who desire the best. 2¼-inch tire which permits easy wheeling of heavy loads. Price, **$7 50.**

## The Little Wonder No-Drip Hanging Basket

A self-watering basket which gives the plants plenty of air and perfect drainage, thus promoting the greatest possible growth. The patented irrigator and no-drip feature of this basket make it an ideal basket for either porch or inside use.

| | Each |
|---|---|
| Price, 5-inch | $1.15 |
| 6-inch | 1.35 |
| 7-inch | 1.75 |
| 9-inch | 2.25 |
| 14-inch | 3.00 |



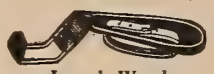
**BASKETS—Wire, Hanging.** Each, 6-in., **20c**; 8-in., **25c**; 10-in., **30c**; 12-in., **35c**. 14-in., **45c**; 16-in., **65c.**

**BOXES — Cut Flower. —** Vaughan's "Green" Grade green lined, moisture-proof board. Very popular. On orders for less than 100 boxes of a size add 10%.

| Size inches | Weight per 100 | Per 100 | Size inches | Weight per 100 | Per 100 |
|---|---|---|---|---|---|
| 3 x21x5 | 45 lb. | $ 6.50 | 3½x30x5 | 75 lb. | $ 9.00 |
| 3½x24x5 | 60 lb. | 7.50 | 4 x24x8 | 85 lb. | 10.50 |
| 3½x21x7 | 65 lb. | 8.50 | 5 x28x8 | 105 lb. | 12.50 |
| 5 x42x8 | 170 lb. | 22.00 | 5 x36x8 | 135 lb. | 17.00 |

Dandelion Digger

Eureka Weeder



Lang's Weeder

Excelsior Weeder

**DANDELION DIGGER.** Each, **45c**; postpaid, **55c.**

**Eureka.** Best hand weeder for loosening soil around plants. Short handled, **55c**; long handled, **65c.** (Mailing weight, 8 oz.)

**Excelsior.** Each, **15c.** (Mailing wt., 4 oz.)

**Lang's.** We find this by actual trial a real labor-saver. Each, **25c.** (Mailing weight, 4 oz.)

**Norcross Weeder.** Each, **50c.** Mailing, 10c extra.

**The Wonder Weeder.** For Dandelion, Plantain, etc., in lawns. It gets the weeds, fast, clean and deep. It absolutely will not break up the sod. Just two simple movements and your weed is out. No backache, soiled hands or clothing. Each, **85c.** If by mail, add 25c.

**TROWELS, VAUGHAN'S.** Each, **95c.** 3 for **$2.75.** Postpaid, each, **$1.00.**

**Ordinary Garden.** 6-inch, each, **15c**; prepaid, **20c.**

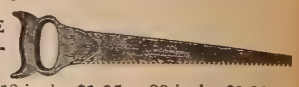
**English Steel.** 6-inch, each, **35c**; prepaid, **40c.**

**LADIES' TRUE TEMPER TROWEL.** Each, **75c**; By mail, **85c.**

**FORK AND TROWEL. Imported English Marple.** Made of the best quality steel, well-constructed tools, handy for use in camp and home-gardens; none better, short handle, per set, **$1.50**; long handle, per set, **$1.85.**

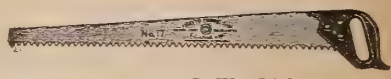
## TOOLS FOR PRUNING

**SAWS, DOUBLE EDGED PRUNING.**



16-inch, **$1.75**; 18-inch, **$1.95**; 20-inch, **$2.10.**

**CALIFORNIA POLE TRIMMER.** Curved, draw-cut saw with hook for removing branches. Each, **$2.50.**



**FORESTER PRUNING SAW.** Makes heavy pruning easy and saves time. 26 inches long. Each, **$2.00**

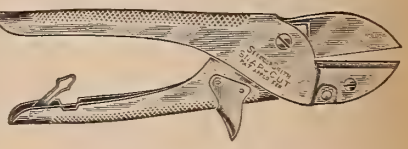
**PRUNING.** 6-inch, nickel-plated, **$1.50**; 9-inch, **$1.85.** Extra springs, each, **15c.**

**PRUNING.** Best grade with double brass springs. Each, **$2.00.**

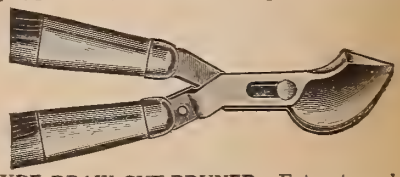
**LEVIN'S PRUNING.** One of the best pruning shears made. Each, **85c.**

**HENCKELS' TWIN BRAND IMPORTED PRUNING SHEARS** are known the world over as the best. Have given satisfaction to users for years. With rachet, 7½-inch, each, **$3.00**; 8½-inch, each, **$3.50**; 9½-inch, each, **$4.00.**

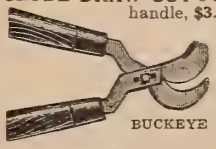
**HENCKELS' IMPROVED CALIFORNIA Pattern** with brass springs, 8½-inch. Each, **$3.75.**



**"SNAP-CUT" PRUNER.** Out cuts all others. Rugged, powerful, durable and rustproof. Each, **$1.75**



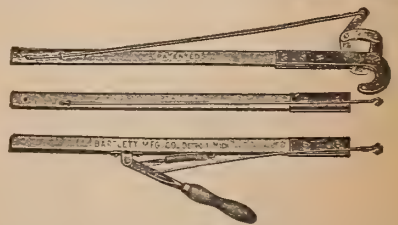
**CLYDE DRAW-CUT PRUNER.** Extra strong, long handle, **$3.75.**



BUCKEYE

**BUCKEYE PRUNING.** Long handle. Each, **$2.00**; large size, heavier, **$2.50.**

**TREE PRUNERS. Waters'.** Length of pole, 6 ft., **$1.75**; 8 ft., **$2.00**; 10 ft., **$2.15**; 12 ft., **$2.35.** Extra knives, each, **25c.**



**No. 4, JOINTED Tree Pruner.** The cutting head is made truss-shape from strong high grade rolled steel. The pole is made of 4-ft. lengths, making a tool convenient to carry on street car or automobile, and can be used as an 8-ft. or 12-ft. pruner. Price, complete, **$6.50.**

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L. H. VAUGHAN, PRES.
CABLE ADDRESS
VAUGHAN, CHICAGO
CAROTIDA, NEW YORK

GREENHOUSES AND NURSERIES,
WESTERN SPRINGS, ILL.

# Vaughan's Seed Store

GENERAL OFFICES AND WAREHOUSES
601-609 WEST JACKSON BLVD., CHICAGO

CARL CROPP, V. PRES.
NEW YORK,
47-49 BARCLAY ST.

CHICAGO LOOP STORE
10-12 W. RANDOLPH ST.

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TUNE IN!

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**Send Remittance** by New York or Chicago draft, **registered letters** or postoffice or express **money orders. Do not send loose currency or stamps in letter, unless registered.** Registered letters can be sent from any postoffice, and your receipt sent you by return mail if demanded by you, by which you know it has reached us. Make money orders payable to "Vaughan's Seed Store." **(Mark your Zone Number on order.)**

## Free Delivery

**All flower seeds prepaid. All vegetable seeds up to 2 lbs. prepaid. Over 2 lbs., by express or freight at buyer's expense.**

**All bulbs, and Dahlias, bought at single and dozen prices, are prepaid to fifth zone from Chicago or New York. Larger quantities by express at buyer's expense.**

**All orders amounting to $1.00 or over (except from Cut Flower Dept., $2.00) delivered free in Chicago including Evanston, Wilmette, Edison Park, Park Ridge, Oak Park, Forest Park, River Forest, Riverside, Maywood and Berwyn.**

**All Water Lilies by mail or express at buyer's expense.**

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**All plant collections shipped by express at buyer's expense, F. O. B. Western Springs, Ill., except where it is specifically stated otherwise in the collection offered.**

**All tools and supplies, including insecticides and fertilizers (except as specified on page 101), are F. O. B. Chicago or New York and shipped at buyer's expense.**

**On all orders of Lawn Grass Seeds amounting to $2.00 or over we prepay transportation within 300 miles of Chicago or New York.**

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## Our Responsibility

It is so manifestly impossible for a seller of any perishable article to be responsible for what may happen to it after it leaves his hand, especially one like seeds, which are planted in the ground under varying conditions of soil and climate, that we, in common with all American seed houses, disclaim responsibility as to the crop which may be raised from seeds which we sell.

At the same time, in case of any failure to secure proper results caused from some inherent fault in the seeds themselves, Vaughan's Seed Store accepts responsibility, **not for crop,** but to the **extent of the amount of money paid** for the seeds, **if we are immediately advised** in case of any failure.

We wish it understood that all our stocks are sold under the following conditions

**We Do Not Warrant** in any way, expressed or implied, the contents or the description, purity, productiveness or any other matter of any seeds, bulbs, plants, shrubs or trees sold by us, and we will not be in any way responsible for the crop. If the purchaser does not accept these goods on above terms, no sale is made thereof, and he must return them at once, and money will be refunded. Subject to above conditions, we make this sale at the moderate prices at which we sell our goods.

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## *Special Offer Order Blank* D

# to Vaughan's Seed Store S 32

47-49 Barclay St., NEW YORK 601 W. Jackson Blvd., CHICAGO

NAME.....Date.....19.....
Write very plainly

Post Office.....State.....

Street, P. O. Box
or Rural Delivery.....

Express or
Freight Office {If different from P. O.}.....Forward Goods by.....
(Parcel Post, Express, Freight or Boat)

| Quantity | | Amount |
|---|---|---|
| | Rainbow Garden of 100 Glads, (10 each, 10 varieties), prepaid, $2.00 | |
| | World's Fair Glads, 15 different large bulbs, (Page 93), prepaid, $1.00 | |
| | Gold Coast Glads, 20 large bulbs as named, (Page 93), prepaid, $2.50 | |
| | Unnamed Seedling blend, 12 large bulbs, (Page 93), prepaid, $1.00 | |
| | 9 Blue Ribbon Dahlias in color on back cover, prepaid, $5.00 | |
| | 8 Early Chrysanthemums in color, (on fourth cover), prepaid, $1.65 | |
| | 10 Different Hardy Phlox, No. 87, (Page 87), prepaid, $3.00 | |
| | 10 Different Rock Plants, 12A, (Page 12), by express, $2.50 | |
| | 3 Peonies, red, white, pink, (Page 12), prepaid, $1.00 | |
| | 50 Irises, 10 each, 5 varieties, (Page 86), by express, collect, $3.00 | |
| | 5 Rock Garden Evergreens, (Page 12), by express, collect, $2.00 | |
| | 3 French Hybrid Lilacs, (Page 12), by express, collect, $2.25 | |
| | 18 Pkts. imported annual novelties, (Page 3), postpaid, $1.00 | |
| | 10 Pkts. all different, early flowering sweet peas, (Page 65), postpaid, 75c | |
| | 10 Pkts., all different, late flowering sweet peas, (Page 65), postpaid, 50c | |
| | 4 Pkts. different colors, (our selection), Dahlia Flowered Zinnias, (Page 68) postpaid, 50c | |
| | Back Yard Vegetable Collection, 8 different pkts., (Page 31), postpaid, 50c | |
| | Total, | |

A PREMIUM FOR EARLY ORDERS—For every cash mail order for vegetable seeds, flower seeds, lawn seeds and bulbs, amounting to $2.00 or more, received on this blank before March 1, 1932, we will send as a premium to reward foresight, gladiolus bulbs, our selection of the better named varieties, to the value of 10 per cent of the order. Premium bulbs will be mailed after March 1.

No premium on orders received after March 1, 1932.

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# Giant Bouquets of Brilliant Color for Garden Accents

## And Other Interesting Shrubs

RECOMENDED BY R. C. BECKER, MGR. OF VAUGHAN'S NURSERIES.

PERHAPS you think of shrubs as the lady thought of books. You remember when the book agent called she shook her head and said: "No, we have a book."

Many gardens seem to have all the shrubs there is room for; but unless they would be sadly out of date they should have some of the modern flowering shrubs, which, in their season become huge bouquets of blossoms that in vivid color, delicate texture and beautiful form, equal any flowers which can be grown.

Shrubs like these do not belong in the border for mass effects. They should be planted as accents, with a setting, where in their flowering season they will become the center of garden interest.

And there are other shrubs whose especial beauty may not lie in the brilliance of their flowers. Some are dwarfs, such as the daphne, and the azalea. But they have outstanding merits which gardeners will recognize; and they may be used for especial effects in the garden picture.

We asked R. C. Becker, manager of Vaughan's Nurseries at 47th street and Wolf Road, Western Springs, Ill., to select a dozen such shrubs which he could recommend as outstanding subjects deserving of a place in any garden even though room must be made for them. He selected the varieties listed and described below.

## Mr. Becker's Recommendations

### CHINESE AZALEA (Azalea Mollis)

Three to four feet. A glorious azalea, with flowers of yellow, orange, lemon, salmon and terra cotta. It is of dwarf, compact growth with attractive foliage and is unexcelled for planting in front of evergreens. 18-24 in., balled and burlapped, $3.50.

### SPREADING COTONEASTER

Five to six feet. Especially prized for its dark scarlet fruits which last until late in the autumn. It forms a wide-branched, densely twiggy bush from five to six feet tall and more in diameter. The small, oval, dark green leaves turn a brilliant shade of crimson before they fall. 2-3 ft., balled and burlapped, $1.50; 10 for $12.50.

### ROSE DAPHNE (Daphne Cneorum)

One foot. A gem for the rock garden or for edging borders. A dwarf evergreen shrub of trailing habit, with leaves of dark glossy green, glaucus beneath. Small, tubular, rose-pink flowers of spicy fragrance are borne in clusters in May and again in late September. Does best in sun, in a well-drained, poor, gravelly soil. In cold climates the plants should be protected during winter. 8-10 in., balled and burlapped, $1.50; 10 for $12.50.

### BEAUTY BUSH (Kolkwitzia Amabilis)

Six to eight feet. Its trumpet-shaped pink flowers, deep pink without, stained with yellow-brown on the lower throat and lip, are most freely produced in June. Grows from six to eight feet tall and fully that wide. Absolutely hardy. One of E. H. Wilson's and the Arnold Arboretum's choicest introductions from China. 2-3 ft., balled and burlapped, $1.75; 10 for $15.00; 2-3 ft., not balled and burlapped $1.25; 10 for $10.00; 3-4 ft., balled and burlapped, $2.50; 10 for $22.50.

### MOCK ORANGE Virginalis

Seven to eight feet. One of the most beautiful shrubs grown. In June the plants appear as a huge bouquet, being completely covered with very large, double crested flowers that are pure white, sweet scented and produced in clusters of five to seven. It has the longest blooming season of any variety, the new wood producing throughout the summer, large, individual, single or semi-double flowers that are often three inches wide. Of vigorous, medium tall, compact growth and large dark green foliage. 3-4 ft., 90c; 10 for $7.50.

### NEW HYBRID RUGOSA ROSE Agnes

Five to six feet. A new yellow Rugosa Rose of exceptional merit. The flowers are a rich amber yellow, double, sweetly scented and come along the branches like hollyhocks, early in June. It is a strong, vigorous grower with gray-green, crinkled foliage. 2-year, $1.25; 10 for $10.00.

### OAK-LEAVED HYDRANGEA (Hydrangea Quercifolia)

Three to five feet. The leaves of this unusual Hydrangea resemble a glorified oak-leaf. They are a dark green in summer, turning to a rich red in autumn. They will stand some shade and the smoky, dusty city conditions and are well adapted to foundation or low border plantings. The flowers are pinkish white, borne in upright clusters in June. 2-3 ft. $1.50; 10 for $12.50.

### SWEET-SCENTED SNOWBALL (Viburnum Carlesi)

Four feet. This dwarf, compact shrub, bearing large corymbs of delicate pale rose blossoms, tinted white, has a delicious, clove-scented fragrance quite surpassing any shrub we know of, and is considered by the Arnold Aboretum as Korea's great gift to our gardens. Hardy, but best planted in a somewhat sheltered position. 18-24 in., balled and burlapped, $2.50.

### JAPANESE WEEPING CHERRY

Single flowering. An old favorite but always rare. Top grafted on straight stems, it makes a beautiful object at any time and particularly in the spring when it is covered with its rosy mass of blooms. 2-year, 5-6 ft., $4.00.

### MAGNOLIA Soulangeana

Twenty feet. A vigorous grower and one of the hardiest of the genus. Flowers come before the long, glossy leaves, and are three to four inches across, cup-shaped, delightfully fragrant, rosy-pink when in bud, pure white when open. A full sized tree is a gigantic bouquet of thousands of showy flowers, not surpassed by any other tree in effectiveness. 2-3 ft., balled and burlapped, $10.00.

### JAPANESE FLOWERING CHERRY

Fujizan (Mt. Fuji). 20 foot. A beautiful variety that produces an abundance of large, double or semi-double, snow-white, fragrant flowers, about 1½ inches wide. Late flowering. 4-5 ft., $4.00.

Kwanzan (Sekizan). 20-25 feet. Often called the handsomest of all the double-flowering cherries. It forms an upright spreading tree with gray bark and deep bronze-green leaves. Its flowers are very full and double, often 2 inches wide, and are a deep pink or old rose. 4-5 ft., $4.00.

### PAUL'S DOUBLE SCARLET HAWTHORN

Twelve to fifteen feet. The most beautiful and showy of the double-flowering thorns, with lovely blossoms of bright scarlet color, large, full and very double. It forms a small tree or large shrub and makes a fine specimen for a lawn. 4-5 ft., $2.50; 10 for $22.50.

# Ten Interesting Plants Every Garden Should Grow

E. W. KOHLENBERG, SUPT.
VAUGHAN'S GREENHOUSES

MR. KOHLENBERG is in charge of our extensive plant growing operations in Western Springs, Ill., where in greenhouses and in the open fields hundreds of varieties of both annuals and perennials are produced. Last summer under his direction a trial ground was laid out which you are invited to visit during the flowering season.

"There are many flowers seldom seen in gardens which have great merit, equalling or surpassing the subjects which are popular, and at the same time quite as easy to grow." Mr. Kohlenberg told us. "I would like to draw special attention to, say, ten of these subjects which I think any garden lover would be delighted to possess. Every new plant which a garden acquires brings new pleasure to the owner and increased interest for those who visit that garden."

Mr. Kohlenberg's ten selections with his descriptions of them are listed below, and a special combination price has been made for those who would like to try them all. These varieties will also be found in the regular catalog pages devoted to plants, together with many others equally fine and perhaps quite as new to your garden.

## Mr. Kohlenberg Recommends

### ACHILLEA CRIMSON BEAUTY

An improvement on Millefolium Kelwayi. Substantial fern-like foliage, vivid rose colored flowers in June which come again if the old blooms are cut back. 2 foot. 3 for $1.00; doz., $3.50; 100, $20.00.

### ANCHUSA MYOSOTIDIFLORA

One ft. A Russian species, bears in April a profusion of pretty pale blue Forget-me-not flowers. Does well in partial shade and makes a fine border plant. 3 for $1.00; doz., $3.50; 100, $25.00.

### ARTEMISIA SILVER KING

Three ft. Is comparatively new in gardens. Its striking gray stems and leaves and rapid branching habit stamp it as unique among foliage plants. The flowers are insignificant, but it makes up for this lack by its ghost-like appearance. 3 for $1.00; doz., $3.50; 100, $20.00.

### ASTER QUEEN MARY

Three ft. Oct. A new and handsome blue variety of the Michaelmas Daisy. Branching habit and good for cut flowers. 3 for $1.00; doz., $3.50; 100, $20.00.

### CLEMATIS RECTA

An erect form of clematis, requires no stakes. 2 to 3 ft. June-July. Produces fragrant, pure white flowers in very large, showy clusters. Two year, 3 for $1.00; doz., $3.50; 100, $20.00. Three year, 3 for $1.25; doz., $4.00; 100, $30.00.

### EUPATORIUM COELESTINUM

It produces bushes 2½ feet tall with profuse lavender flowers resembling ageratum, blossoming from September until killing frost. An excellent cut flower. 3 for 85c; doz., $2.50; 100, $15.00.

### HELIANTHUS Multiflorus fl. pl.

Three to four ft. Aug.-Sept. Large double golden yellow flowers resembling a dahlia or a chrysanthemum. It produces a wealth of large blooms when other perennials are not flowering. 3 for $1.50; doz., $5.00; 100, $30.00.

### PHLOX SUBULATA VIVID

Very compact moss-like foliage. 4 in. The best of the creeping phlox, covered with vivid pink blooms in May and June. 3 for $1.00; doz., $3.50; 100, $20.00.

### PHYSOSTEGIA VIVID

Twenty in. One of the best of the late-blooming perennials. It blooms three weeks later than the other Physostegias; the individual flowers are larger and of a deeper, much more vivid pink. Thrives in any sunny location. 3 for $1.00; doz., $3.50; 100, $25.00.

### POTERIUM OBTUSUM

Three ft. July-Sept. The Japanese Burnet, a rare plant of recent introduction. It has graceful pinnate foliage and catkin-like crimson flowers about three inches long. Very ornamental and fine for cutting. 50c each.

**SPECIAL OFFER**

One each of the ten plants described on this page will be shipped by express (not prepaid) for $2.75

three each, as above, $7.50

# TREES and NURSERY STOCK only on this sheet PLANTS

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47-49 Barclay St., NEW YORK — 601 W. Jackson Blvd., CHICAGO

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Postage Stamps$.....
Cash - - - $.....

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See Page 112 for our SPECIAL PREPAID OFFER, also Table of PARCEL POST RATES to different zones.

Your local postmaster will tell you in which Zone you reside as regards NEW YORK or CHICAGO.

More order blanks will be sent upon request. Always write letters on a separate sheet from your order.

We do not warrant in any way, expressed or implied, the contents or the description, purity, productiveness or any other matter of any seeds, bulbs or plants, sold by us, and we will not be in any way responsible for the crop. If the purchaser does not accept these goods on above terms, no sale is made thereof, and he must return them at once, and money will be refunded. Subject to the above conditions we make this sale at the moderate prices we charge.
VAUGHAN'S SEED STORE (Incorporated).

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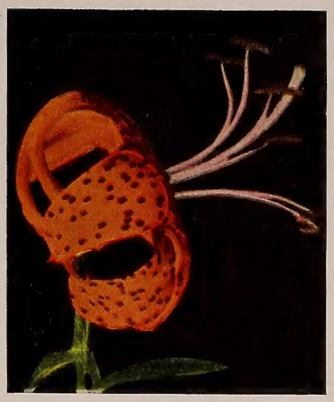
Auratum



Tigrinum Splendens

Umbellatum

Regale

Elegans

Longiflorum

Henryi

Tenuifolium

Canadense

Rubrum

# *Lilies for Spring Planting*

## Lily Cover Collection

All first size bulbs. One bulb, each, as illustrated on this page, for **$3.00,** prepaid; three bulbs, each, as illustrated, for **$7.00,** prepaid; six bulbs, each, as illustrated, for **$12.50,** prepaid.

**AURATUM**—The Gold-Banded Lily of Japan, grows four to seven feet tall, blooming in July and August. First Size (8-9 in.), ea, **30c**; doz., **$3.00**; prpd. 100, **$22.50.** Mammoth Size (9-11 in.), ea., **40c**; doz., **$4.00**; prpd. 100, **$27.00.** Jumbo size (11-12 in.), ea., **50c**; doz., **$5.00**; prpd. 100, **$35.00.**

**AURATUM PICTUM**—A form of Auratum with red dots and scarlet tipped yellow band. First Size (8-9 inches), each, **50c**; doz., **$5.00**; prepaid.

**AURATUM PLATYPHYLLUM (Improved Auratum)**—Superior to above in larger flowers, profuse blooming, and glossy foliage. First Size (8-9 inches), each, **40c**; doz., **$4.00**; prepaid 100, **$27.00.** Mammoth Size (9-11 inches), each, **50c**; doz., **$5.00**; prepaid 100, **$35.00.** Jumbo Size (11-12 inches), each, **65c**; doz., **$6.50**; prepaid 100, **$50.00.**

**BATEMANNIAE**—Gorgeous deep apricot colored lily resembling Umbellatum (picture above) in shape, July flowering, 3 feet. Each, **30c**; Doz., **$3.00**; 100, **$22.50.**

**BROWNI**—A Chinese lily with trumpet shaped, beautiful flowers with yellow throats and purplish brown outsides. Grows two to three feet tall, blooming in July. Each, **35c**; doz., **$3.50**; prepaid 100, **$25.00.**

**CANADENSE**—Mixed, red, and yellow, grows two to five feet, often many as forty flowers. Each, **20c**; three for **50c**; doz., **$2.00**; 100, **$15.00**; prepaid.

**CERNUM**—The lilac colored Teniufolium. Lilac pink, spotted purple. June flowering, 2 ft. Each, **30c**; doz., **$3.00**; prepaid 100, **$22.50.**

**CONCOLOR**—Flowers are upright, starlike in form, deep vermilion. Blooms in July, 6 to 18 in. high. Ea., **30c**; doz., **$3.00.**; prepaid.

**CORIDION**—A pretty little lily, flowers upright, deep yellow blooming in July. Very hardy. Habits of growth similar to Concolor. Each, **40c**; doz., **$4.00**, 100, **$27.00.**

**ELEGANS**—Mixed, two feet tall, June blooming, mixture contains shades of red and orange. Each, **25c**; three for **70c**; doz., **$2.50**; 100, **$18.00**; prpd.

**HANSONI**—A beautiful Japanese lily deep golden yellow, recurved petals. Three to four feet tall, blooming late June. Each, **50c**; doz., **$5.00**; prepaid.

**HENRYI**—Grows four to six feet tall, five to twenty-five flowers in late August and September. Each, **45c**; per doz., **$4.50**; prepaid.

**JAPONICUM (Krameri)**—A truly pink lily. Grows two to three feet tall, June flowering. Each, **30c**; dozen, **$3.00**; 100, **$20.00**; prepaid.

**LONGIFLORUM (Hardy Easter Lily)**—Three feet tall, blooming in June. Each, **50c**; three for **$1.25**; doz., **$4.50**; prepaid.

**MARTAGON (European Turk's Cap)**—Magenta purple blooms, opening in June. Each, **30c**; three for **80c**; doz., **$3.00**; 100, **$20.00**; prepaid.

**PARDALINUM**—The Pacific coast's "Wild Tiger Lily". Magnificent orange scarlet, heavily spotted. Each, **30c**; doz., **$3.00**; 100, **$20.00.**

**PHILADELPHICUM (Wild Red Lily)**—Orange-red, tinged yellow in center and spotted deep purple. Blooms June and early July. Each, **15c**; doz., **$1.60**;100, **$12.00**; prepaid.

Superbum

Japonicum

**REGALE**—Large bulbs bear many flowers of a wonderful scent. 4-inch, each, **20c**; doz., **$2.00**; 100, **$15.00.** 6-inch, each, **30c**; doz., **$3.00**; 100, **$22.50.** 7-inch, each, **40c**; doz., **$4.00**; prepaid.

**RUBRUM (Magnificum)**—White, flushed pink, heavily spotted with carmine; late Aug.-Sept., bloomer. First Size (8-9 inches), each, **30c**; doz., **$3.00**; 100, **$22.50.** Mammoth Size (9-11 inches), each, **40c**; doz., **$4.00**; 100, **$27.00.** Jumbo Size (11-13 inches), each, **60c**; doz., **$6.00**; prepaid.

**SUPERBUM (American Turk's Cap)**—July and August blooming, three to eight feet tall. Each, **25c**; three for **70c**; doz., **$2.50**; 100, **$18.00**; prpd.

**TIGRINUM FLORA PLENO (Double Tiger Lily).** Each, **15c**; doz., **$1.60**; prepaid 100, **$12.00.**

**TIGRINUM SPLENDENS (Tiger Lily)**—August blooming, four to six feet tall. Large bulbs, each, **15c**; doz., **$1.60**; prepaid 100, **$12.00.**

**TENUIFOLIUM (Siberian Coral Lily)**—June flowering, two to four feet, five to twenty flowers. Each, **30c**; three for **80c**; doz., **$2.75**; 100, **$20.00.**

**UMBELLATUM MIXED**—June flowering. Two to five feet tall. Mixed, shades of red and orange. Each, **20c**; three for **50c**; doz., **$2.00**; 100, **$15.00.**

**Lilies will not be shipped until after March 15th, except to California and Southern States**

Mrs. Frances L. Karcher
Ea. $4.00

Dearborn
Ea. $5.00

Rosa Raisa
Each, $8.00

Tawny
Ea. $5.00

Pompadour
Each, $5.00

Forest Fire
Ea $0.35
Doz. 3.50

Rhapsody in Blue
Each, $10.00

Caruso
Ea. $ 0.15
Doz. 1.50
100, 10.00

## Vaughan's Glorious Gladioli

The ten splendid varieties illustrated in the top and middle rows on this page are all recent introductions, of which the supply of bulbs is very limited. For one bulb each of these ten varieties, (10 bulbs) we make a special reduced collection price which affords a substantial saving.

**60-A.** One bulb each of the ten varieties illustrated in the top and middle rows of this page (10 bulbs), prepaid for **$37.50**

**60-B.** One bulb each of the six varieties illustrated on the bottom rows of this page (6 bulbs, prepaid for - - **$0.55**

Two bulbs each of above (12 bulbs) prepaid for - - - - - - - **1.00**

Three bulbs each of above (18 bulbs) prepaid for - - - - - - - **1.50**

Six bulbs each of above (36 bulbs), prepaid for - - - - - - - **2.75**

Twelve bulbs each of above (72 bulbs), prepaid for - - - - **5.00**

*See Index for Other Varieties*

Cadillac
Ea. $ 2.00
Doz. 20.00

Blue Royale
Each, $8.00

L. W. Wheeler
Ea. $0.10
Doz. 1.00
100, 7.00

Sphinx
Ea. $0.10
Doz. 1.00
100, 7.00

Lansing
Ea $ 0.20
Doz. 2.00
100, 15.00

Imp. Schwaben
Each $0.10
Doz. 1.00
100, 7.00

Mrs. F. King
Ea. $0.05
Doz. 0.50
100, 3.50

Virginal
Ea. $0.15
Doz. 1.50
100, 10.00

Bennett
Ea. $0.10
Doz. 1.00
100, 7.00

Sovereign
Ea. $ 0 15
Doz. 1.50
100, 10.00

Golden Measure
Ea. $0.10
Doz. 1.00
100, 7.00

Minuet
Ea. $ 0.20
Doz. 2.00
100, 15.00

Vaughan White
Ea. $ 0.15
Doz. 1.50
100, 10.00

Mrs L. Douglass
Ea. $0.10
Doz. 1 00
100, 7.00

Kalamazoo
Ea. $ 0.25
Doz. 2.50
100, 18.00

Pfitzer's Triumph
Ea. $ 0.25
Doz. 2.50
100, 18.00

## Vaughan's Blue Ribbon Gladioli

We have assembled in the top and middle rows of this page ten varieties which are without doubt the most frequent first prize winners in flower shows throughout the country. Grow them for your show exhibits and you will have sure winners. We offer below collections at a substantial saving.

**70-A.** One bulb ea. of the ten varieties illustrated in the top and middle rows of this page (10 bulbs) prepaid for - - - - - **$1.40**

Two bulbs each of the above (20 bulbs), prepaid for - - **2.50**

**70-B.** One bulb ea. of the six varieties illustrated on the bottom row of this page (6 bulbs), prepaid for - - - - - - - **.50**

Two bulbs each of above (12 bulbs), prepaid for - - **.85**

Three bulbs each of above (18 bulbs), prepaid for - - **1.25**

Six bulbs each of above (36 bulbs), prepaid for - - **2.25**

Twelve bulbs each of above (72 bulbs), prepaid for - - **4.00**

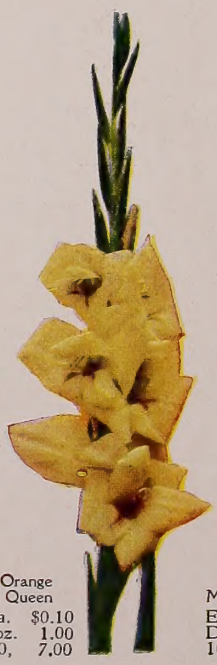
Edith Mason
Ea. $0.25
Doz. 2.50
100, 18.00

W. H. Phipps
Ea. $0.10
Doz. 1.00
100, 7.00

Imp. Martha Washington
Ea. $ 0.15
Doz. 1.50
100, 10.00

Capt. Boynton
Ea. $0.10
Doz. 1.00
100, 7.00

Mrs F. Pendleton
Ea. $0.06
Doz. 0.60
100, 4.00



Orange Queen
Ea. $0.10
Doz. 1.00
100, 7.00

Elsie McCormick
Ea. $0.10
Doz. 1.00
100, 7.00

Ionia
Ea, $0.10
Doz. 1.00
100, 7.00

SAGAMORE

CHARM

JANE COWL

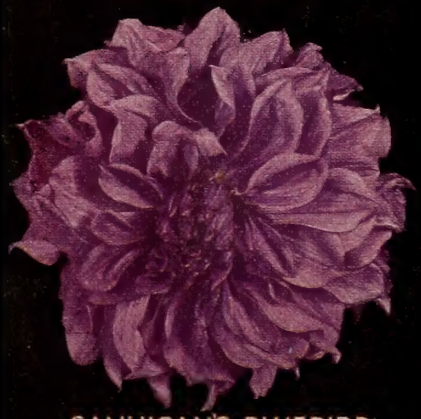
MRS. IDE VER WARNER

AVALON

PAPILLON

JERSEY'S BEAUTY

JERSEY'S BEACON



SANHICAN'S BLUEBIRD

# *Vaughan's Blue Ribbon Dahlias*

The nine outstanding varieties of diverse colors illustrated on this page are consistent winners at flower shows, and together constitute a collection of which anyone would be proud.

## Back Cover Collection

One strong tuber of each of the nine varieties illustrated on this page postpaid for $5.00. Individual prices follow, all prepaid to 5th zone.

### SAGAMORE

Formal Decorative. Golden amber shading salmon rose and orange buff toward center. Size 7 inches. Price each, 75c.

### MRS. IDE VER WARNER

Formal Decorative. A refined mauve pink on long erect stem. Size 9 to 10 inches. Price each, 35c.

### PAPILLON

Informal Decorative. A blend of old rose and gold with fine form. Free bloomer. Size 8 inches. Price each, 75c.

### JERSEY'S BEACON

Formal Decorative. Chinese scarlet with a paler reverse giving a two toned effect. Size 8 to 9 inches. Price each, 75c.

### CHARM

Formal Decorative. Burnt orange shading to yellow strong stems free flowering. Size 6 to 7 inches. Price each, 50c.

### JANE COWL

Informal Decorative. Bronzy buff and old gold blending darker towards center strong erect stems. Size 10 inches. Price each, $1.50.

### AVALON

Informal Decorative. Pure clear yellow always full to the center. Flowers carried on long erect stems. Size 7 inches. Price each, 75c.

### JERSEY'S BEAUTY

Formal Decorative. A perfect bloom of erosine pink carried high above foliage on long stems. Size 6 inches. Price each, 50c.

### SANHICAN'S BLUEBIRD

Informal Decorative. A bright violet blue perfect form, strong wiry stem nearest approach to a blue Dahlia. Size 6 to 7 inches. Price each, $1.00.

**For other varieties please refer to "Dahlias" in index, page 111.**